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# DRUG & CHEMICAL MARKETS

Established 1914

A Weekly Business Paper for Those Who Make, Sell, or Buy  
Chemicals, Dyestuffs, Drugs, Essential and Fatty Oils

VOLUME XII,

NEW YORK, MARCH 21, 1923

No. 12

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***In This Issue*** { *Common Salt as a Chemical Product*  
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ISSUED EVERY WEDNESDAY

# DRUG & CHEMICAL MARKETS

3 PARK PLACE, NEW YORK

VOLUME XII, NUMBER 12

[MARCH 21, 1923]

## BROADER COMMERCIAL FREEDOM

When the U. S. Supreme Court reviews the decision of the Court of Appeals in the Mennen case the meaning of "competition" as used in the Sherman Anti-Trust law, the Clayton Act, and the Trade Commission Act, will be made clear, and in all probability a definite rule of action will be laid down for courts and the Trade Commission to follow in interpreting these laws. The Court of Appeals holds that the Trade Board rulings have interfered with the right of business men to exercise their own independent discretion as to whether to sell to wholesalers, or whether to sell to both wholesalers and retailers.

A broader commercial freedom is needed in trade, and a decision by the Supreme Court harmonizing the anti-trust laws will be welcomed by business men, if not by corporation attorneys. Much of the litigation arising under the Trade Commission Act has been due to the peculiar ideas of the Board on trade practices. The company which was made defendant in the present suit sold its goods upon terms openly announced, and so long as the company conducted business in the ordinary way, without misrepresentation, it had the right to fix the terms under which it would sell. The Trade Board, however, forbade the company to adopt any system of discounts upon the basis of a classification of its customers as jobbers, wholesalers, or retailers. Without discount allowances the wholesaler would have been placed at a disadvantage as compared with a large consumer buying direct or a retail association working on a co-operative plan and buying for a group of retailers. A small retailer would be at a disadvantage in competing with a large retailer, and large chain stores would be able to buy at lower prices than small chain stores by buying in quantity. In other words, the decision of the Court of Appeals protects the wholesaler in his business, and gives the small buyer an equal chance with other retailers who might be members of a co-operative organization. Competition is encouraged and customary business practices in all lines of trade are upheld.

## WHAT OF QUICKSILVER PRICES?

Does the recent sharp upward movement in quicksilver mean that there is another war brewing somewhere in Europe or Asia? Last week the withdrawal of the Spanish Government mines from the market following the reported consummation of a contract for total output of metal for some months ahead, forced the price in London up from £10 10s to £12 12s. This represented an

advance of \$10 per flask practically overnight. A dull, soft New York market was startled into firmness by the news and importers withdrew temporarily until more definite information was available. American consumers were apparently caught off their guard. They had shown little inclination to buy at \$68.00 per flask spot which very probably would not have been the case had the negotiations for a large contract by the Spanish mines been generally known. The sudden withdrawal of Spain and the rapidity of the rise in price gave an appearance of something more than the ordinary market fluctuation. As mercury fulminate is indispensable in modern warfare, the metal is naturally very sensitive to the slightest war-scare rumor.

With the Spanish mines eliminated as an open market factor for some months, the general course of the world's quicksilver prices during this period at least, points upward. Stocks in America, that is metal of foreign origin, are reported to be very small just at present. If this be true, it is a direct contradiction of reports which were current a short time ago, and has not been borne out by prices for a number of weeks past. The heavy imports of metal since the first of the year have either passed into consumption or are still available. If the metal went to consumers, the buying must have been done in deep secrecy, for during the supposed "buying period" demand was reported as dull and prices eased down somewhat. On the quantity of metal held in the United States available for consumers, will the price during the expected "shortage" be based. Those who hold low cost stocks are lucky, but attempts to drive up prices to artificially high levels will surely have its inevitable reaction,—to kill the goose that lays the golden eggs.

## "COME AND GET IT"

Reports from commercial attaches in Germany indicate that much of the delay in delivering goods for foreign shipment is caused by the refusal of German manufacturers to take out French licenses in the Ruhr district. The United States Government is making an investigation of special complaints by American importers, but a protest to France is improbable as this country recognizes the right of France and Belgium to enforce regulations deemed necessary to control the situation.

The real cause of trouble in keeping production of dyes and chemicals up to the standard of a year ago seems to be the shortage of coal. Yet many German industries use domestic lignite and the manufacturers in the Ruhr region have been

buying coal in England. New York importers say it is impossible to get new supplies of colors from Germany at present, claiming that stocks have been bought up by speculators. The fact remains that imports of dyes in February were 191,000 pounds and 62 per cent of these colors came from Germany. The imports in January amounted to 179,000 pounds, Germany supplying 86,000 pounds of this total. The list included 150 different colors.

In addresses before the Synthetic Organic Chemical Manufacturers' Association, the claim was made by prominent speakers that the United States is making all dyes needed in this country, with the exception of about twenty rare colors which presumably are not in much demand. Possibly a few other dyes are not made in sufficient quantity in the United States to meet all requirements. Allowing that we must continue to call upon Germany for these little used colors, it is apparent that the bulk of her trade in dyes with the United States has been lost. Official figures indicate that Germany's output of dyes today is far below pre-war production—perhaps only one-half 1913 figures—and with the United States competing in the countries where German dyes are being sold today, the outlook for the future of the German industry is not encouraging.

The share in the world trade which may fall to the United States depends upon the American manufacturers' interest in foreign business. If they want it and go after it with vigor, and adopt some of the methods by which the Germans won trade in the Far East—such as sending experts to demonstrate how the colors should be used—the Americans can get back much of the business in dyes which came to this country during the war when Germany was unable to deliver. The situation is somewhat similar because she is unable at the present time to fill orders on hand. The Far East is saying to the countries that want her trade: "Come and get it."

#### PHENOMENAL INDUSTRIAL GROWTH

The National Industrial Conference Board of New York has devoted more than a year to an analysis of the census of manufactures for the past seventy years of industrial progress in the United States, and makes the startling statement that "tax expenditures outstripped all other items of expenditure in relative gain with an increase of 37 per cent from 1914 to 1919, while the ratio of taxes to total expenditures more than doubled." The enormous increase in taxes is traceable to the war and world-wide economic influences which have made special assessments necessary. Capital has had to bear its share of the burden and labor has had the benefit of higher wages to enable the worker to cope with the new conditions.

To meet the industrial development since 1899, it has been necessary to draw heavily upon other occupations. Of each 1,000 workers in 1899 it is found that 182 were employed in manufacturing. Twenty years later the number of persons employed in manufacturing had increased to 260 per

1,000 employed in all gainful occupations. Overhead has increased enormously. Between 1914 and 1919 the number of salaried officers of corporations increased 43 per cent, superintendents and managers 92 per cent, and clerical help 43 per cent. The number of wage earners during the same period increased only 29 per cent. The importance of management in the more complex industrial organizations, the development of by-products, which hitherto were discarded as waste, the nationwide distribution of manufactured goods and the tendency to expand for world trade account for this peculiar situation.

The wage cost to manufacturers increased 158 per cent between 1914 and 1919. The average cost of labor in manufacturing industries rose from \$20.71 per month in 1849 to \$96.50 in 1919, an increase of 368 per cent. It must be remembered that a steady decline in the number of hours of work per day and per week has been taking place during the last twenty years. All these factors raise the standard of living in this country, but make it more and more difficult to protect the home market against foreign competition, especially with countries that pay low wages, and to compete in world markets with Great Britain, France, Germany, and Japan.

Whether the small buyer would be wiped out, should his larger retail rival be able to buy at the same prices quoted to wholesalers, may be questioned, but without doubt, his business would suffer. In small towns his rival might have a monopoly of the trade in special lines. A great many merchants will rejoice over the Mennen decision, whether their business is small or large, because it means continued competition which is the life of trade.

Many chemical salesmen have learned new ways to sell the products which they represent, since taking the course in chemistry at the College of the City of New York. Knowing more about the uses of chemicals and how they are made gives them new arguments. Some consumers need instruction in how to get the best results with products which they purchase, and the man who can furnish the information usually wins a new customer.

#### *Many Men: Many Minds*

New Hampshire legislator would make eight hours' sleep compulsory, but don't let that keep you awake.—Wall Street Journal.

In England it is not uncommon to cut Bank of England notes in half and mail the halves in separate envelopes to lessen the risk of loss. They will be honored if joined together.—Boston Globe.

"Your predecessor," said the travelling salesman's new employer, "has got his business all tangled up and I expect you will have a difficult task to get order out of chaos." "I don't know who Chaos is," replied the new man cheerfully, "but I bet I'll get an order out of him if I have to hang onto him for a week."—Boston Transcript.

## Common Salt as a Chemical Product

**C**OMMON salt or sodium chloride is the earliest known mineral necessary for the support of human life, and has occupied a prominent place in most industrial developments for centuries. Rarely has so essential a natural product been so lavishly distributed for the use of mankind. Not only is it found in abundant quantities in sea water, but huge deposits were laid down in the earliest geological ages in widely distributed sections of the earth's surface. The immense deposits of Austria, Russia, Germany and England have been worked for centuries and were important factors in the early wars. Except in England, salt production was a government monopoly, not only for the purpose of revenue, but because of its importance for food, industrial and war purposes. In China, salt is the unfailing source of government revenue and its production is guarded most jealously. The tax on salt is considered the most equitable form of universal taxation and, by very clever sliding scale graduation, our normal salt consumption would be in the luxury class and within the means of only the richest Chinese.

In America, the principal deposits are in Western New York, Northern Ohio, Michigan, Kansas and Louisiana. In New York State, the deposits are found from 1,000 to 2,200 feet below the surface. The strata vary in thickness from a relatively few feet to an aggregate of several hundred feet. The greatest thickness is in Louisiana, where a drill has penetrated to a depth of over two thousand feet through solid salt.

The earliest source of commercial salt was the evaporation of sea water by utilization of solar heat. The water was run into shallow basins, sometimes acres in area, where in time the sun's heat caused evaporation, leaving behind the salt and other minerals in solution. Naturally this product was much contaminated and quite unfit for most industrial purposes. In the countries bordering on the Mediterranean Sea and in the tropics where there is an abundance of hot weather and cheap labor, this is still the chief source. By far the largest quantities, however, are produced either by direct mining of the mineral by a method similar to that by which coal is produced, or by the evaporation of brine which was made by dissolving the rock salt with fresh water which is pumped into the deep laid deposits. Of the salts produced by either of the latter methods, each has a specific use and there is little occasion where one can be substituted for the other.

The mined salt, known commercially as rock salt, is used chiefly for packing meats and fish, pickling and preserving food products, salting hides and skins, and freezing and packing ice cream. It is also essential in the manufacture of dyes, chemicals, fertilizers, soap, paper, steel and tile. Evaporated salt is chiefly a food product and is used exclusively where the highest state

*N. J. Chisholm*

Vice-president, International Salt Co.



As vice-president of the International Salt Co., Mr. Chisholm writes as a salt expert. His many years experience in the production, refining, and industrial uses of salt place him among the foremost authorities in the country.

Although Mr. Chisholm is not the authority for the statement, estimates place the quantity of salt in the waters of the "seven seas" as thirty-six quadrillion tons, while it is said that an equal quantity is available on land. Judging from this, modern alkali production is in no danger of ever running short of raw material.

of purity is really essential.

The modern salt mine affords an opportunity for the most ideal mining conditions. The veins, or strata, which are worked, are usually horizontal and vary

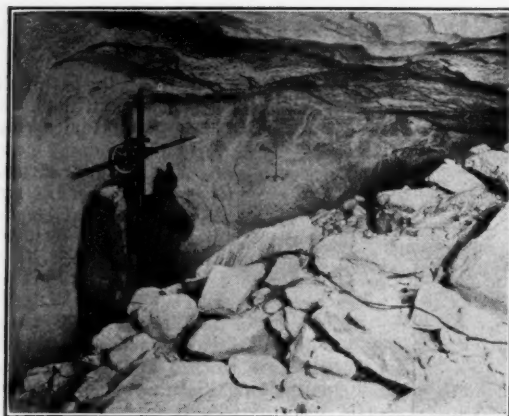
in thickness from six to eight feet, to much greater thicknesses. There is little or no water to contend with and gas is never troublesome. The oldest and largest salt mine in the United States is the Retsof mine located in Livingston County, New York, owned and operated by the International Salt Company. More than thirty years ago an unusually pure deposit of salt was located there and it is from that source that the famous Retsof salt is produced.

The salt is reached through a vertical shaft 1017 feet deep. The mine workings consist of a number of tunnels or gangways through the salt bed, extending in one direction alone considerably over one mile. From these, at uniform intervals, there are rectangular rooms from which the salt also is removed. At suitable distances, huge pillars thirty feet square are left standing in place to support the overlying rock. A map of these underground rooms very much resembles a huge checkerboard. The salt is drilled with electric drills and blasted out with powder. Loaded with mechanical loading devices into cars, it is hauled by electric motors from the face of the workings to the foot of the shaft, and elevated to a breaker where it is crushed and screened to desired sizes. These sizes are known to the trade as No. 2, No. 1, "CC" and "FC." No. 2 is about the size of a large pea, No. 1 about the size of a small pea, "CC" about as large as a grain of rice and "FC" about the size of a grain of coarse sand. The quality of all sizes is the same. The lump rock salt is supplied in any size lumps from three pounds up and is conceded the purest and best salt for horses, cattle and sheep.

The evaporation of brine, although one of the oldest of the arts, was carried on with little or no change until a relatively recent time. After the solar process comes the old method of boiling brine in huge kettles with fires under them, and this is the method that is quite commonly used in Europe today. It was only discarded in America approximately fifteen years ago.

The more modern method which facilitates mechanical operation and which insures a more uniform product is by steam evaporation. There are two general manners in which this is carried on, the grainer, or open type of evaporator, and the vacuum, or closed type. The modern grainer consists of a shallow tank usually eleven or twelve feet wide and one hundred and twenty to one hundred and forty feet in length, and two feet deep, in which is located a series of steam coils. The brine which fills the vessel submerges the steam pipes and the water is driven off by the heat thus applied, leaving the salt in the bottom of the pan. The operation is continuous and the salt is removed at





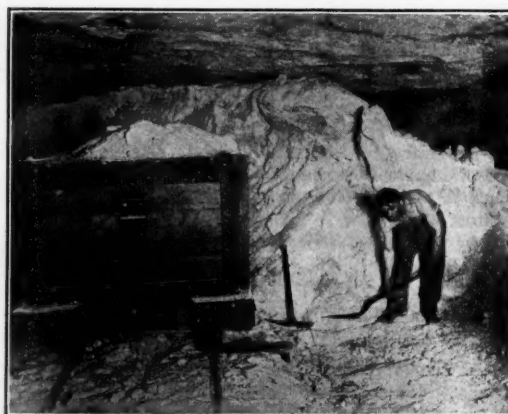
Holes Are Drilled and the Salt Blasted

regular intervals either by the hand lift method or other mechanical raking devices.

A vacuum pan consists of a closed vessel of which the three component parts are the brine section, the heat belt section, and the vapor or dome section. These pans are filled about two-thirds full of brine and the heat from the steam belt drives off the water as steam, precipitating the crystallized salt. The process is continuous, fresh brine being fed in as fast as evaporation takes place, a more or less constant level of liquid being maintained. The steam which arises from the boiling brine is condensed by any of the usual type of cold water condensers and the non-condensable gases are removed from the vapor section by means of an air pump. The salt is removed from the bottom of the pan by means of a continuous type of elevator which is connected with the leg of the vacuum pan.

One or both of these types of evaporators is found in most salt plants. The highest development of the vacuum type of evaporator is found in the immense evaporating plants at Watkins, N. Y., and Ludlowville, N. Y. Here, the evaporation is carried on by means of a multiple effect vacuum system. This apparatus consists of four vacuum pans so arranged that the steam from the boiling brine in the first is conducted to the heating belt of the second, that of the second to the third, etc., so that, in all, the heat which was initially applied to the first has caused all four pans to boil. By this method, not only the highest efficiency is obtained, but a capability of large production is insured. The nature of the process also insures a salt of a high grade of purity.

The raw product of the evaporator is conveyed by mechanical means to centrifugal machines where the



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bulk of the moisture is driven out by centrifugal force. These machines rotating at their high velocity remove not only the excess moisture, but carry out all of the bitter which is so liable to be found in ordinary grades of salt. The last traces of moisture are driven off by passing the salt through highly heated rotating dryers through which is driven a great volume of heated air.

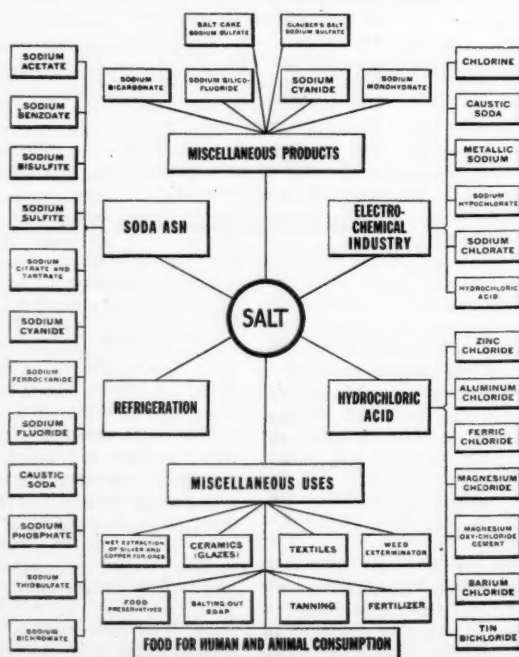
The dried salt is screened through fine mesh sieves and then conducted to the filling devices, where it is put up in any type of package that is required by the trade. These packages consist of everything from two pound sacks or paper cartons to bags which weigh two hundred pounds and barrels of about three hundred pounds each. This grade of salt is used chiefly for domestic, dairy and baking purposes, and in the arts where a high degree of purity is essential.

Salt which is to be used for industrial purposes is generally not required to be kiln dried. Such salt is conducted from the centrifugal machines to immense warehouses where it is stored for future shipment. This product is shipped out either in bulk cars or in sacks and barrels which range from one to three hundred pounds in weight. The salt which is the product of the vacuum pan is known as granulated or vacuum salt, and that of the grainers is called Coarse, Common, Fine, or G. A.

To tabulate and describe the modern uses for common salt would be to write a library. It stands with sulfuric acid as a key product without which the chemical industry of the world would revert to the methods of a century ago. In the leather industry, the preservation of meats, fish and other foodstuffs, in dyeing, in the

manufacture of steel and paper, cheap salt is vitally essential.

### THE INDUSTRIAL POSITION OF SALT





# Trade Board Reversed in Mennen Case

*Circuit Court of Appeals Holds That Company May Maintain Separate Prices for Wholesale and Retail Trade— Decision to Be Appealed to U. S. Supreme Court*

**T**HE Federal Trade Commission will appeal to the Supreme Court of the United States, the decision handed down by the United States Circuit Court of Appeals of New York City, in which the court set the commission's order aside in its case against the Mennen Co. The Circuit Court of Appeals held:

"The company is engaged in an entirely private business, and it has a right freely to exercise its own independent discretion as to whether it will sell to wholesalers only, or whether it will sell to both wholesalers and retailers. And if it decides to sell to both, it has a right to determine whether or not it will sell to the retailers on the same terms it sells to the wholesalers."

The finding of the Mennen case is another decision of far-reaching importance to trade and commerce operating under the Federal Trade Commission Act.

The gist of the decision, which was written by Judge Henry Wade Rogers, is that the Mennen Co., may sell its products to the wholesalers at one price and to retailers at a relatively higher price, making a discount to the wholesalers for service rendered. It is further decided that the Mennen Company, is in no sense a monopoly, and that it might even refuse to sell to retailers if it so desired.

"What the Mennen Co. did was to allow to wholesalers who purchased a fixed quantity of their products a certain rate of discounts," says the decision of the court, "while to the retailers who purchased the same quantities it denied the discount rates allowed to the wholesalers. This does not indicate any purpose on the part of the Mennen Company to create or maintain a monopoly."

"The company is engaged in an entirely private business and it has a right freely to exercise its own independent discretion as to whether it shall sell to wholesalers only or whether it shall sell to both wholesalers or retailers, and if it decides to sell to both it has a right to determine whether or not it shall sell to the retailers on the same terms it sells to the wholesalers. It may announce in advance the circumstances, that is, the terms under which it will sell or refuse to sell."

The Mennen Co., did not discriminate between wholesalers, but sold to all wholesalers on one and the same scale of prices, said the Court.

"In conclusion," says the decision, "it ought perhaps to be said that we have not been unmindful of the fact that the Mennen Co., in classifying purchasers into two groups, those of wholesalers and retailers, placed in the group of retailers a class of mutual or co-operative corporations which purchased in large quantities the Mennen products. These mutual or co-operative corporations, it is admitted, consist solely of the retailers in the same line of trade, the stock being held exclusively by retailers."

"The fact that these individuals, admitted by the counsel for the Federal Trade Commission to be retailers, see fit for their own convenience to organize themselves into a corporation which they constitute their agent for purchasing purposes does not change their character or the character of their purchases, and convert them into wholesalers."

Felix H. Levy, of 128 Broadway, who appeared as counsel for several of the large trade associations, including the Wholesale Dry Goods Association, said recently that the unanimous reversal by the Circuit

Court of Appeals of the order made by the Federal Trade Commission constitutes a complete vindication of the position taken by the Mennen Co., and by various trade associations which participated in the appeal.

Gilbert H. Montague, counsel for the Mennen Co., said that every contention of the company had been sustained. He continued:

"The commission claimed that service is not a legal basis for discounts and that discounts, generally speaking, can be allowed only for quantity, and must be the same to all customers, whether wholesalers, retailers or even consumers."

"The commission's order, which the Circuit Court of Appeals has now reversed, forbade the company to adopt any system of discounts upon the basis of a classification of its customers as jobbers, wholesalers, retailers or any similar classification which relates to the customers' form of organization, business policy, business methods."

"This denial of the manufacturer's right to give any consideration to the particular distributing service rendered by any of his customers would, in the Mennen Co's., opinion, have placed every distributor, retail or wholesale, at a disadvantage as compared with every large consumer buying direct, and every small retailer at a disadvantage as compared with every large retailer, and every retailer, however large, at a disadvantage as compared with every chain store, and every small chain store at a disadvantage as compared with every large chain store, and every small wholesaler at a disadvantage as compared with every large wholesaler, and every co-operative or mutual organization at a disadvantage as compared with every larger buying unit, whether retail or wholesale."

"It would, in the Mennen Co's., opinion, have had the unfortunate result of clogging every channel of distribution, both retail and wholesale, with combinations which not only would soon exterminate the independent retailer and the independent wholesaler, but would in time build up great combinations of wholesalers and retailers that would eventually exterminate all smaller combinations of wholesalers and retailers."

"Whether a buyer is a wholesaler or not does not depend upon the quantity he buys. It is not the character of his buying, but the character of his selling which marks him as a wholesaler. The persons who constitute these mutual or co-operative concerns are buying for themselves to sell to the ultimate consumers and not to other 'jobbers' or to 'retailers.' The nature of the transaction herein involved is not altered by the fact that

they make their purchases through the agency of their corporation. The important fact is that the members of the corporation are all retailers who buy for themselves to sell to the ultimate consumer. The Mennen Company is within its rights in classifying them as 'retailers.'

"Concluding its opinion, the court says that the facts established by the testimony are not sufficient to constitute a violation either of the Federal Trade Commission Act or the Clayton Act, do not support the Federal Trade Commission's conclusions of law and that the Mennen Co., is not shown to have practiced unfair methods of competition in commerce."

#### COMMITTEE REPORTS ON RESEARCH WORK

The National Research Council committee, headed by E. W. Allen of the Department of Agriculture, reports that 553 separate projects and more than 1,100 co-operative undertakings have been advanced to be acted upon. Of the 553 separate projects, 360 fall under the head of research. Leading purposes of the United States Government in fostering co-operation have been to provide for the more adequate scientific investigations of matters of general interest from the national or regional standpoint, and to promote nation-wide movements of various kinds. The combined cost of the Federal and outside co-operators of the definitely organized scientific work in which the Government is concerned aggregated, so far as the available data show, more than \$41,000,000 for the year 1922. Of this amount over \$14,000,000 came from the Federal Government. The balance came from outside agencies.

Under the head of research work are included the acquisition of new knowledge by the method of systematic scientific investigation; routine testing and technical service; gathering of statistics; enforcement of regulatory laws or measures; and the like.

#### CALCIUM ARSENATE DEMAND FALLS OFF

R. N. Chipman, of the Chipman Chemical Engineering Co., is of the opinion that in spite of the fact that the production of calcium arsenate in the United States is far in excess of the estimates made last fall, the supply is nearing exhaustion. The estimated production of calcium arsenate for this season was placed at 17,000,000 pounds. It is now certain that 22,000,000 pounds will be available.

Mr. Chipman further states that, in spite of the increased production of calcium arsenate, the price has advanced since last year from 12 to 18 cents per pound, but now the price refuses to go any higher, owing to the demand having been met, whereas Paris green, which in the same period advanced from 15 to 30 cents per pound, and lead arsenate, which advanced from 12 to 22 cents per pound, are still in demand. Although the current price of white arsenic is 15½ cents per pound, he says that he is able to buy it for August delivery at 10 cents.

J. Clifton Rivers, State Warehouse Commissioner of South Carolina, recently purchased in New York sufficient calcium arsenate to use the \$50,000 fund appropriated by the Legislature several times during the present year if the farmers buy fast enough. Mr. Rivers said that he found the market short and large quantities hard to buy, but he finally closed contracts which call for deliveries beginning this month.

Imports of stains in October amounted to 237,832 pounds, valued at \$290,861; extracts for dyeing 310,651 pounds, valued at \$23,505.

#### CHEMICAL IMPORTS IN 1922 SHOW INCREASE, EXPORTS LITTLE CHANGED

Value of Imports in Eleven Months Period \$93,000,000  
—Exports Estimated at \$97,215,547—Vegetable Dye  
Extracts Imported in Much Larger Quantities

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., March 21.—An increase of 24 per cent in imports of chemicals for the eleven months, January-November, 1922, compared with 1921, is reported by the Chemical Division of the Bureau of Foreign and Domestic Commerce. The aggregate value was \$93,070,171. The exports during the same period were valued at \$97,215,547, an increase of only one per cent over the exports in 1921.

The total importations of crude coal-tar products dropped 10 per cent in value from \$4,951,310 in 1921, to \$4,432,228 in 1922, the most noticeable decrease occurring in imports of benzene, which fell from 1,694,684 pounds, valued at \$41,608, to 172,483 pounds, valued at \$1,215, one-third of which amount was imported in the month of November. Naphthalene also showed a large decrease from 4,422,894 pounds, valued at \$133,754 in 1921, to 2,516,913 pounds, valued at \$42,172.

The increase in imports was shared in by all the various classifications making up the general group of "chemicals and allied products," coal-tar chemicals contributing \$186,443 to the total gain of \$18,021,578 for the eleven-months period, medicinal and pharmaceutical preparations an advance of \$648,102, general chemicals an increase of \$720,669, paints, pigments and varnishes \$1,280,528, fertilizers \$12,213,879, explosives \$297,276, and miscellaneous chemical products (soap, perfumery and cosmetics, cellulose products and blackings and polishes) a gain of \$2,674,681.

Out of a total of 700,591 pounds, valued at \$857,836 of finished coal-tar chemical products arriving during the period Sept. 23-Nov. 30, 1922, 67,109 pounds, valued at \$84,847, were alizarin and alizarin derivatives; 16,609 pounds, valued at \$24,772, were anthracene and carbazole colors and dyes; 16 pounds, \$23, were color lakes; 872 pounds, \$1,482, indigo dyes, colors and stains; 528,513 pounds, \$684,515, were coal-tar colors, dyes, stains, color acids and color bases, n. e. s. Of the last class, 188,386 pounds, \$229,785, came from Germany; 240,923 pounds, \$333,469, from Switzerland, and 14,540 pounds, \$14,682, from the United Kingdom. With the foregoing there are likewise included 91,912 pounds, valued at \$41,307, of coal-tar medicinals; 5,470 pounds, \$6,843, of explosives, and \$13,847 worth of other finished coal-tar products.

Vegetable dye extracts, coloring materials, etc., show an increase of over 300 per cent in quantity and 200 per cent in value, growing from 714,198 pounds, valued at \$63,016, in 1921, to 2,963,149 pounds, \$201,667, in 1922. Of this amount 655,559 pounds, valued at \$40,019, have been received since Sept. 22, 1922, and until Nov. 30, 1922.

#### FRANCE RELEASES RUHR PRODUCTS

Millions of dollars worth of dyestuffs, chemicals, steel products, textiles and various kinds of machinery which have been tied up owing to the difficulties of the import tax, will be released through a decision of the Interallied High Commission. The decision was reached when France announced a desire to facilitate commerce between Germany and the Allies. Export licenses, it is said, will be granted expeditiously and there will be no discrimination against American trade.

### Trade Notes and Personals

The Department of Commerce is preparing a book on trade association activities, which will appear about May 1.

Jocelyn Brudenell Pelham, Earl of Chichester, who owns extensive borax interests in California, is in San Francisco on a business mission.

Frank Talbot, formerly associated with the Antoine Chris Co., New York and C. H. Penning, Cleveland, O., have become attached to the Tariff Commission as chemists.

Eli Lilly & Co., Indianapolis, announce that on April 1, their New York branch will move from 203 Fulton st. to the recently purchased six-story building at Spring and Crosby sts.

Bernard L. Shientag, Industrial Commissioner of the New York State Department of Labor reports that during February some of the soap factories made large additions to their forces. Employment rose in all chemical and allied industries.

W. J. Stevens, 5 State st., has been appointed receiver for the Strong and Trowbridge Co., exporters, 17 Battery Place, New York, against whom an involuntary petition in bankruptcy has been filed by three creditors. Liabilities are believed to be \$250,000, and assets about \$100,000.

Maximilian Toch, professor of industrial chemistry at Cooper Union, has been invited to deliver a course of lectures as Honorary Professor of Industrial Chemistry at the University of Peking. Dr. Toch has accepted, conditionally, owing to his inability to leave his work here before early in 1924.

The Dean of the School of Pharmacy at Fordham University, Dr. Jacob Diner, advised the members of the Italian Pharmaceutical Association of Greater New York at their dinner, March 17 at the Hotel Biltmore, to support the passage of the bills in the Legislature at Albany to free their business of the fake pharmacist and the bootlegger.

The Twenty-fifth Chemists' Exhibition will be held at the Central Hall, Westminster, London, from June 18 to 22. Representatives of American chemical firms visiting London during the exhibition week will be assured a hearty welcome at the booth of the "British and Colonial Pharmacist." Admission will be free on presentation of business card.

A meeting of the local branch of the American Pharmaceutical Association was held on Monday evening, March 19 at 115 W. 68th st. Dr. Jacob Diner, president of the New York State Pharmaceutical Association, gave a talk on "The Pharmacist as a Citizen and as a Professional Man." Dr. Curt P. Wimmer read a paper on "The Astronomic Conception of the Atomic Structures."

The American Sugar Refining Co. reports an operating profit of \$10,083,832 in 1922 against an operating loss of \$2,177,276 in 1921. After adding other income of \$1,270,941 and deducting \$1,000,000 for depreciation and \$1,800,000 for interest charges, there remained a balance of \$8,554,773 for the outstanding capital stock. After payment of regular dividends on the preferred stock, there remained a balance equal to \$12.01 a share on the \$45,000,000 common stock outstanding.

### VALUE OF U. S. MANUFACTURES JUMPS 6,000 PER CENT IN TWO GENERATIONS

**Within Five Years This Country Has Become The World's Greatest Industrial Nation—Leads in Volume and Variety of Production, in Number of Wage Earners, and in Power Applied to Manufacturing Processes**

A picture of industrial transformation and growth unparalleled in rapidity and extent is revealed in the first graphic analysis of the Census of Manufactures, just issued by the National Industrial Conference Board, presenting in concise and simple form an accurate and vivid record of the outstanding features of the industrial progress of the United States in the past 70 years. This volume is the result of more than a year's study and analysis of the data gathered in the Census of Manufactures of 1919 and preceding censuses, carried on in close cooperation with the Census Bureau. It shows that, in the span of a little more than two generations, the United States has assumed the leading position among all nations in the volume and variety of its manufactured production, in the number of wage earners engaged in manufacturing, in the power applied to manufacturing processes and in the value of manufactured products. We have become, the National Conference Board says, the world's greatest industrial nation, and this position has been established in large part within the five years from 1914 to 1919.

From 1849 to 1919 the total value of products manufactured in the United States rose from \$1,091 millions to nearly \$62½ billions, and the number of wage earners employed in manufacturing from 957,059 to 9,096,372. In the first twenty years of this century the personnel of manufacturing industries more than doubled, while the total value of manufactured products in 1919 was approximately five and one-half times the total in 1899.

These changes have gone along with new developments in manufacturing processes which are directly indicated by the increasing importance of mechanical power and the development and use of new types of power and fuel such as electricity and oil in the last two decades. The total horsepower of the various types of power in manufacturing establishments increased from about 2,350,000 in 1869 to nearly 30,000,000 in 1919, fifty years later. The ratio of mechanical power to man-power has also increased to a marked degree. From 1899 to 1919 the total power used nearly trebled, while the number of wage earners increased less than two-thirds. In the last decade the total horsepower of electrical motors in manufacturing plants rose nearly 239%. A marked increase in the use of oil has taken place in the last decade, the quantity of this fuel consumed in manufacturing rising from 34 million barrels in 1909 to 92 million barrels in 1919 or approximately 168%.

### EMPLOYEES DEFRAUD CHEMICAL COMPANY

The Standard Chemical Co. of Toronto, Canada, has started criminal proceedings against several employees, who are accused of theft and grafting on a large scale involving a loss to the company estimated at about \$100,000. The company manufactures chemical by-products from wood and also conducts large lumbering operations. It has six plants in Ontario, and four in Quebec, and the fraudulent operations extended from Sault Ste. Marie, Ont., to Cooksline, Que. The methods alleged to have been employed included purchasing wood lots which were resold to the company at advanced prices; and purchasing cord wood and timber and reselling them to the company at an advance.



### CHEMICAL SALESMEN PLAN COURSES

Chemical courses for chemical salesmen, and chemical expositions, were the main topics of discussion at the monthly meeting of the New York Chapter of the National Chemical Salesmen's Association held Wednesday evening, Mar. 14, at the Chemists' Club. The meeting was scheduled as an "Alkali Night," but owing to the inability of the desired speakers to be present, an eleventh hour change was made in the program. Acting chairman, R. E. Dorland, however, tried to make the meeting as alkaline as possible with interspersed "caustic" remarks. E. V. Finch of the United States Alkali Export Association spoke briefly on the export phases of the alkali industry and the increasing friendliness of South American buyers.

Charles F. Roth of the International Exposition Co., after outlining the history of expositions, from the early bazaars to the modern show, said that "the prime thought of an exposition must be an educational factor; the secondary thought is for business to be done; and the third thought is for the development and expansion of the industry represented. The original idea was to show that America possessed some chemical industries and makers of chemical equipment and had the brains and raw material as a nucleus for a complete and self-contained group of chemical industries which should be permanently established. Each year the management works to make the exposition better and of greater service to the industry, he said. New members have been appointed to the Advisory Committee which now has representatives from every branch of the chemical and chemical equipment industries. The educational features, he added, will be on a broader scale than ever before.

Plans for the continuation of the chemical course for chemical salesmen were outlined by Dr. F. E. Breithut of the College of the City of New York. Although these plans have not fully matured it was thought that a repetition of the course given this winter, together with lectures on industrial and economic chemistry could be undertaken next fall and winter.

### PARKE, DAVIS & CO. DECLARE 5% EXTRA

Parke, Davis & Co. have declared an extra dividend of 5 per cent on the capital stock, par \$25, in addition to a quarterly dividend of 2 per cent, both payable March 31 to holders of record March 21. On Jan. 2 last a quarterly dividend of 4 per cent, together with an extra of 4 per cent, was paid on the old capitalization outstanding before payment on Dec. 30, 1922, of the 100 per cent stock dividend. The balance sheet of Dec. 31 is as follows:

	1922	1921
<b>Assets—</b>		
Lands, buildings, machinery, &c.	\$4,050,892	\$3,986,532
Formulae, trade-marks, &c.	10,500,000	
Inventories	6,120,939	6,370,364
Investments	6,207,008	4,543,287
Cash	3,318,271	3,397,933
Accts. receivable	3,783,725	3,453,450
<b>Liabilities—</b>		
Capital stock	\$23,708,970	\$11,845,235
Accounts payable	761,392	750,232
Res. for spec. taxes	1,201,344	1,098,872
Dividend reserve	948,342	947,600
Surplus	7,360,786	7,109,627
<b>Total</b>	<b>\$33,980,835</b>	<b>\$21,751,565</b>

The United States Industrial Alcohol Co. has declared the regular quarterly dividend of 1 3/4 per cent on the preferred stock, payable April 16 to holders of record March 31.

### The Editor's Correspondence

#### Boston Has Salesmen's Courses

Editor, DRUG & CHEMICAL MARKETS:

I would suggest that a course for Chemical Salesmen should include the following: First, a course in Chemistry such as is outlined below:

**Inorganic Chemistry.** The fundamentals of chemical science and the descriptive chemistry of the more important elements and their compounds; the solution of simple stoichiometrical problems. 30 one-hour lectures. Textbook: Black and Conant, Practical Chemistry or an equivalent.

**Organic Chemistry.** A consideration of the technically more important carbon compounds. One lecture a week. Textbook: Moore, Outlines of Organic Chemistry.

**Industrial Chemistry:** The mechanical processes of chemical technology, and the chemistry underlying the manufacture of representative inorganic and organic chemicals and products. One lecture a week. Textbook: Rogers, Manual of Industrial Chemistry.

**Salesmanship.** A course of instruction outlined on the demonstration basis in such a way as to permit each member of the class to demonstrate the merchandise in which he is most interested. Textbook: Whitehead, Principles of Salesmanship, or an equivalent.

After these courses have been taken by all the salesmen, I would suggest that certain options be provided for men who might then be interested in going further with their studies. Among such courses might be Personal and Business Efficiency, English Composition as applied to business writing, and Speech Training. A number of such courses have been given in this college with marked success.

At the present time we have extra-mural courses for employees and executives of the Boston Consolidated Gas Co., for members of the American Institute of Banking, Boston Chapter, and we have just completed a course on Life Insurance for executives and employees of insurance companies.

These courses are all given by members of our regular faculty, but are especially designed to meet the needs of each particular group.

CHARLES E. STRATTON,

College of Business Administration, Boston University, Boston, March 14, 1923.

### NEW ADVISERS NAMED FOR EXPOSITION

The Advisory Committee of the Ninth Exposition of Chemical Industries met at the Chemists' Club, New York, on Tuesday evening, March 13, to discuss plans for the coming exposition. Upon recommendation of the Salesmen's Association of the American Chemical Industry, new members were unanimously elected to the Advisory Committee as follows:—

Chas. L. Reese, E. I. Du Pont De Nemours & Co., Inc.

John W. Boyer, The Mathieson Alkali Works, Inc.

Percy D. Schenck, The Duriron Co.

W. Moore, New Jersey Zinc Co.

Williams Haynes, Publisher DRUG & CHEMICAL MARKETS.

H. J. Schnell, "Oil Paint and Drug Reporter."

Milton Kutz, Roessler and Hasslacher Chemical Co.

A. R. Rosengarten, Powers-Weightman-Rosengarten Co.

T. C. Oliver, Chemical Construction Co.

R. Gordon Walker, Oliver Continuous Filter Co.



## QUOTATIONS ON CHEMICAL STOCKS

Closing Prices for Week Ending March 17

	Bid	Asked		Bid	Asked
Air Reduction .....	68½	70	Hercules Powd., pf. 104	106	106
*Allied Chem. & D. 78½	78½	79½	Heyden Chem. ....	2½	2½
*Allied Ch. & D., pf. 110½	111½	111½	Hooker Electro. ....	55	65
*Am. Ag. Ch. ....	33½	34½	Hooker Electro, pf. 60	70	70
*Am. Ag. Ch., pf. ....	66	66½	*Int. Agricult. ....	9½	9½
*Am. Chicle .....	84	9	*Int. Agricult., pf. 35	38	38
*Am. Chicle, pf. ....	23½	30	*Int. Nickel, pf. ....	15½	15½
*Am. Cot. Oil. ....	16½	16½	*Int. Nickel, pf. ....	72	76
*Am. Cot. Oil, pf. ....	30	31	*Int. Salt .....	80	90
*Am. Cyan. ....	15	20	*Mathieson Alk. ....	61	62
*Am. Cyan., pf. ....	53	56	Merck & Co., pf. ....	84½	86½
*Am. Druggist S. ....	6½	6½	Merrimac .....	83	88
Am. Glue .....	82	85	Mulford Co. ....	35	40
Am. Glue, pf. ....	124	126½	Mutual Co. ....	150	150
*Am. Linseed .....	34½	35	*National Lead ....	129	130
*Am. Linseed, pf. ....	56½	57½	*National Lead, pf. 112	112½	112½
*Am. Malt .....	12	13	N. J. Zinc. ....	177	179
*Am. Zinc .....	18	18½	Niag. A., pf. ....	96	100
*Amer. Zinc, pf. ....	55	56	Parke, Davis & Co. 82½	83	83
Atlas Powder .....	152	161½	Penn. Salt .....	85	86
Atlas Powd., pf. ....	87½	89½	People's Gas, Chi. 91	91½	91½
By. Prod. Co. ....	57	65	Procter & Gamble. 124	128	128
Carborundum .....	135	135½	Procter & Gam., pf. 102	106	106
Carborundum, pf. ....	115½	116	Royal Bak. Co. ....	130	130
Casein Co. ....	30	45	Royal Bak. Co., pf. 99	100½	100½
Celluloid Co. ....	90	92	Sherwin-Williams ..	29	29½
Celluloid Co., pf. ....	108½	109	Sherwin-W., pf. ....	93	97
Ches. Mfg. ....	234	238	Stand. Ch. ....	90	100
Ches. Mfg., pf. ....	115	117	Swan & Finch. ....	28	32
Com'l Solv. A. ....	42	43	*Tenn. C. & Chem. 12½	12½	12½
Do B. ....	28	30	*Tex. Gulf, Sul. ....	61½	62½
*Corn Products ....	130½	130½	Union Carbide ....	64½	64½
*Corn Products, pf. 121	122	122	Union Sulphur ....	81½	81½
*Davison Chem. ....	35½	36½	*Un. Drug .....	47½	48½
Dow Chem. ....	200	200	*Un. Drug, 1st pf. 47½	48½	48½
Dow Ch., pf. ....	103	103	*Un. Dyewood ....	42	42
Du Pont de Nem. 117½	118	118	*Un. Dyewood, pf. ....	92½	92½
*Du p't de Nem. Db. 86½	87½	87½	Un. Gas, Imp. ....	53½	53½
Eastman Kodak ....	111½	111½	Un. Gas, Imp., pf. 56	57	57
Eastman Kodak, pf. 108½	108½	108½	U. S. Gypsum. ....	73½	74
*Freepot, Tex., Sul. 20	20½	20½	*U. S. Indus. Al. ....	71	71½
*Freepot, Tex., Sul. 91	93	93	*U. S. Indus. Al., pf. 100	102	102
*Grasselli .....	128	132	*Va.-Car. Ch. ....	22½	22½
*Grasselli, pf. ....	100	101½	*Va.-Car. Ch., pf. ....	66½	66½
Hercules Powder ....	111	114	*V. Vivaudou ....	19½	19½

\*Listed on New York Stock Exchange

MacAndrews & Forbes Co. has declared quarterly dividends of 1½ per cent on preferred stock and 2½ per cent on common, payable April 14 to stock of record March 31. Three months ago an extra dividend of 2 per cent was declared in addition to the regular disbursement of 2½ per cent.

The Pyrene Manufacturing Co. for the year ended Dec. 31 shows profit of \$123,224, subject to Federal taxes, as compared with \$48,285 in 1921. After payment of dividends amounting to \$146,316, deficit was \$23,092, against \$98,031 in previous year.

The Merrimac Chemical Co., has declared an extra dividend of \$1. per share in addition to the regular quarterly dividend of \$1.25 a share. These dividends are payable March 31 to stock of record March 17.

The National Licorice Co., has declared the usual quarterly dividend of 1½ per cent on the preferred stock, payable March 31 to holders of record March 23.

The Fleischmann Co., has declared the regular quarterly dividend of 1½ per cent on the preferred stock, payable April 1 to holders of record March 15.

The Boro Chemical Co., Binghamton, has increased its capitalization from \$5,000 to \$50,000. Dr. J. S. Kelley is president and Frank T. Macey treasurer.

Directors of the Kennecott Copper Co. have declared the regular quarterly dividend of 75c a share, payable April 16 to stock of record March 23.

National Varnish Co. has obtained judgment for \$210.55 against Nathan Klineman.

Manhattan Chemical Co. has obtained judgment for \$109.70 against Harry Levy.

## SOUTHERN PHOSPHATE DEFICIT IS \$116,930

The Southern Phosphate Corp. reports gross profits from operations of \$147,330 for the year ended Dec. 31, 1922, against \$314,749 in the previous year. After crediting other income and deducting fixed charges, taxes, shut-down expenses of certain plants and reserves for depreciation and depletion, there remained a net loss of \$116,929 against a net balance of \$27,967. As a result of the loss reported in 1922 the surplus on Dec. 31, 1922, amounted to \$233,187 against \$340,117 at the end of 1921. The balance sheet on Dec. 31, 1922, showed net current assets of \$469,600 against net current liabilities of \$363,603.

W. F. Carey, president, in his statement to stockholders, notes modification in a contract for the purchase of 4,000 acres of phosphate lands. To finance these payments, he added, the directors have authorized the sale of 119,798 additional shares of capital stock. The new shares will be offered at \$5 a share, stockholders of record March 19 having the right to subscribe for one new share for each share held on that date.

Mechling Bros. Chemical Co., of Medford, Mass., has filed a financial report for the year ended Dec. 30, 1922, as follows:—Assets—Real estate, \$294,516; machinery, \$280,402; furniture, fixtures and tools, \$3,109, autos, trucks and teams, \$24,336; merchandise, \$109,556; accounts receivable, \$58,019; cash, \$11,148; securities, \$229,755; patent rights, formulae and trade marks, \$94,321; sundry, \$3,511; total \$1,108,678. Liabilities—Capital stock, \$550,000 (\$1,000,000 authorized); mortgages, \$40,000; accounts payable, \$53,976; surplus, \$150,414; reserve for depreciation, \$314,288; total, \$1,108,678.

Adrian H. Muller and Son, auctioneers, sold 1,000 shares of stock of the Alpers Chemical Co., for \$5 per share on March 14.

An involuntary petition in bankruptcy was filed against the Biltmore Pharmacy, Chicago, last week, on claims of \$12,000.

The Mutual Chemical Co. of America has obtained judgment for \$305.12 against the Marden, Orth and Hastings Co.

Cellar & Kraushaar have obtained judgment for \$3,108.30 against the Personal Drug and Chemical Co.

The City of New York has obtained judgment for \$101 against the General Magnesite Co.

The City of New York has obtained judgment for \$101.41 against the Alliance Paint Co.

W. R. Grace & Co. have obtained judgment for \$3,058.87 against Benjamin Adler.

## New Incorporations

Progressive Color and Chemical Co., Inc., New York, \$100,000. Chemists, drugs. H. Hintze, Weehawken, N. J.

The Camel Chemical Co., Portland, Ore., \$25,000. To make chemicals and by-products. C. W. Hall, W. B. Porter, G. J. Dreis.

The Anglo-American Aniline and Chemical Works, Wilmington, Del., \$450,000. To make chemicals and dyes. Colonial Charter Co.

The West Virginia Chemical Co., Fairmount, W. Va., \$25,000. To make chemical and by-products. J. M. Moran, H. H. Curry.

The Columbian Color and Chemical Co., Brooklyn, \$20,000. To manufacture chemicals and dyes. J. J. and F. J. Sullivan, J. R. Cusack.

The C. W. Bus'ck Dye Co., Wilmington, make chemicals and dyes, \$500,000. Colonial Charter Co.

The Hendon Chemical Co., Buffalo, \$1,000,000. H. D. and G. L. Williams. Represented by Williams, Minard & Howell, Erie County Bank Bldg.

The Cyaco Chemical Co., New York, make chemicals and dyes, \$20,000. Jenks and Rogers, 67 Wall st.

## The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, page 736

### ACTIVE DEMAND FOR HEAVY ACIDS

**Business in Spot Market Improves—Stocks of Imported Chemicals Small—Caustic Potash Continues to Advance—Ammonium Chloride Stronger—Antimony Salt Higher—Copper Sulfate Demand Normal**

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

<b>Advanced</b>	
Ammonium Chloride, ¼c lb.	Lithopone, 1c lb.
Ammonium Sulfate, ¼c lb.	Paris Green, 2c lb.
Antimony Salt, 1c lb.	Phosphorus, red, 5c lb.
Barium Carbonate, \$2.00 ton	Potash, Caustic, Imp., ¼c lb.

#### Declined No Declines

	Trend of the Market					
	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acetic Acid, Glacial....lb.	\$12	\$12	\$12	\$9	\$19½	\$7
Sulfuric Acid, 66 deg. ton	14.00	14.00	14.00	16.00	55.00	20.00
Bleaching Powder, Works.....100 lbs.	2.00	2.00	2.00	1.90	9.50	1.50
Copper Sulfate.....100 lbs.	6.40	6.40	6.40	5.40	20.00	4.50
Potash Caustic.....lb.	.08½	.08	.07½	.05¾	.87	.08
Saltpetre, cryst.....lb.	.07	.07	.07½	.07¾	.35½	.04½
Soda Ash, 58 p.c.....100 lbs.	1.90	1.80	1.80	1.70	3.50	.60
Caustic Soda, 76 p.c.100 lbs.	3.55	3.55	3.55	3.60	9.50	1.42
Potassium Bichromate..lb.	.10	.10	.10	.10	.65	.06¾
<b>Average</b> .....	<b>3.123</b>	<b>3.123</b>	<b>3.122</b>	<b>3.213</b>	<b>11.06</b>	<b>3.14</b>

Business in the spot market improved considerably during the week. Buying in some lines of imported chemicals is restricted owing to the limited amount of stocks on hand and the advancing prices for shipments. Domestic manufacturers are enjoying good business with contract withdrawals increasing in size. Makers of heavy acids report that consumption is gaining steadily and that some difficulty is being experienced in making deliveries. Caustic soda and soda ash continue in steady demand. Caustic potash is still a firm feature in the market with spot prices for imported material advancing steadily on higher shipment costs. Domestic makers are now busy in competition with the imported potash. Copper sulfate demand is normal at this season of the year, though buying has not been as heavy as was expected. Higher prices due to the cost of metal have restricted buying somewhat. Ammonium chloride is much firmer. Antimony salts are higher. Ammonium sulfate supplies are very small and producers have none to offer for several months. Barium carbonate prices are higher. Demand is a little more active for barium salts. Paris green is active and strong.

**Acid, Acetic**—Consumers have been taking on supplies in larger quantities, reflecting improved business conditions. Sellers continue to quote \$3.17½@ \$3.42½ per 100lbs for 28 per cent. 56 per cent \$6.35@ \$6.60. 70 per cent, \$7.94@ \$8.19. 80 per cent, \$9.08@ \$10.85. Glacial, \$12.05@ \$12.80.

**Acid, Hydrofluoric**—Demand is along routine lines with makers quoting 30 per cent at 6c@7clb., 48 per cent at 10c@11clb., 52 per cent at 11c@12clb., 60 per cent, 13c@14clb. White, 25c@26clb.

**Acid, Lactic**—Demand is along steady lines with makers quoting 22 per cent dark at 4½c@5clb. Light, 5½c@6clb. 44 per cent dark, 9½c@10clb. Light, 11c@12c. 66 per cent, 16clb. U.S.P., 55c@70clb.

**Acid, Muriatic**—Consumers are withdrawing on contracts in larger volume and makers busy meeting the

demand. 18 degree in tanks named at 90c@ \$1.00 per 100lbs. In carboys at \$1.00@ \$1.10 in carlots. 20 degree in tanks at \$1.00@ \$1.10. Carboys at \$1.10@ \$1.25. Iron free, \$1.35. 22 degree in carlots of carboys, \$1.75@ \$2.00.

**Acid, Nitric**—Demand is routine, with stocks in good supply. 36 degree quoted at \$4.50@ \$5.00 as to quantity. 38 degree, \$5.25@ \$5.75. 42 degree, \$5.75@ \$6.50. 44 degree, \$6.50@ \$7.50.

**Acid, Sulfuric**—Makers are having difficulty in meeting the increased demand from consumers. 66 degree supplies are limited. Prices are still \$14@ \$16 in tanks. 60 degree at \$9@ \$11. Oleum is very scarce at \$17@ \$18 per ton.

**Acetone**—Stocks are none too plentiful and prices are firm at 22c@22½clb, depending upon the quantity.

**Alums**—Prices are firm at \$3.50@ \$3.65 for ammonia lump at works. Demand has been improving somewhat. Ground, \$3.65. Powdered, \$3.90@ \$4.00. Potash lump, \$4.25@ \$4.50. Imported, \$3.00@ \$3.25. Chrome, 5½c@6c lb. Soda, 3½c@4clb.

**Ammonium Chloride**—Improved demand has made the market stronger for the imported material. White, 6½c@7clb. Gray, scarce, 8c@9clb. Domestic makers named white at 7½c@8clb. Gray, 8c@8½clb.

**Ammonium Sulfate**—Makers are not quoting bulk, being in a sold up condition for several months. Very little is offered f.a.s. at \$4.10@ \$4.20.

**Antimony Salts**—The market is stronger at 23c@ 24clb.

**Barium Compounds**—Carbonate is stronger on better demand at \$72@ \$75 per ton. Chloride a little more active at \$90@ \$95 per ton.

**Arsenic**—The market is showing little activity and interest has fallen off considerably in the market. Sellers are quoting 15½c@16clb for prompt material.

**Bleaching Powder**—Supplies can be had for prompt delivery but not in any large quantity. Spot prices are named at \$2.40@ \$2.65. At works, \$2.15@ \$2.25. Contracts at \$1.90@ \$2.00.

**Calcium Acetate**—Makers continue to quote at \$3.50 per 100lbs. Demand is along steady lines. A meeting of producers was held this week at Buffalo.

**Copper Sulfate**—Demand is reported to be seasonal, though prices have had a tendency to slow up buying. Domestic material is quoted at \$6.40@ \$6.50 per 100lbs. Imported is firm at \$5.80@ \$6.00.

**Copper Carbonate**—Improved demand together with the advance in the price of metal has made the market stronger. Firm at 19c@19½clb.

**Copperas**—Supplies are more plentiful and demand has also been active. Bulk is named at \$20@ \$21 per ton. Barrels, \$25. Bags, \$23.

**Glauber's Salts**—In steady demand and makers are unable to accumulate stocks for the summer season, when it is difficult to crystallize the salt. Technical named at \$1.25@ \$1.75 as to quantity in barrels. U.S.P. \$1.40@ \$1.75. Imported, \$1.00@ \$1.10.

**Potash, Caustic**—Domestic producers are quoting 8½c@8½clb as to quantity at works. Importers are asking 8½clb. Shipment prices are said to be at 8½c

lb. Demand is active and competition between importers and domestic makers is keen.

**Potassium Prussiate**—The yellow was steady at 37½c/lb on slow demand. Red is holding at 80c@85c/lb.

**Soda Ash**—Demand is steady and along broad lines. Withdrawals on contract have been increasing. Prices are unchanged at \$1.20 for light in bags on contract. Ex-store at \$2.00 in bags. Barrels, \$2.25. Resale at \$1.75@1.80.

**Soda Caustic**—Improvement in an already active market has been noticed and makers are supplying consumers on contract business. Export demand is reported better. Makers continue to quote on contract basis at \$2.50 for 60 per cent in carlots of drums at works. Ex-warehouse New York at \$3.70. Open market prices range from \$3.35@3.50 as to quantity and brand.

**Sodium Bichromate**—Competition in the market has settled prices and carlots and smaller quantities are named at 7½c/lb.

**Sodium Cyanide**—Makers were quoting 96-98 per cent at 23c/lb and 73-76 per cent at 20½c. Imported at 19½c@22c/lb.

**Sodium Prussiate**—The market has been quiet and quotations were at 18½c@18¾c/lb.

Exports of copper from the United States in 1922 showed a gain of 16 per cent over 1921 and only 11 per cent below the pre-war average, says "Commerce Monthly," published by the National Bank of Commerce in New York. The declines as compared with 1921, in shipments to Germany, Japan and some other countries were more than offset by gains in exports to Italy, France, Great Britain, Belgium and many other countries.

The Federal Trade Commission has ordered the Aluminum Co. of America to divest itself of all the stock in the Aluminum Rolling Mill Co., charging that the former had violated section 7 of the Clayton Anti-trust act when it acquired 80 per cent of the rolling mill, and alleging that it intended to restrain competition and create a monopoly. This construction of the law was upheld by the Supreme Court of the United States.

Four leases for potash production, all in California, and 219 permits for prospecting for potash on Government land in western states had been issued up to Dec. 1, according to an announcement by the United States Bureau of Mines. Of the potash prospecting permits 170 were in Utah, 21 in Nevada, 14 in California, 8 in New Mexico, 3 in Arizona and one each in Colorado, Montana and Nebraska. The prospecting permits cover 512,480 acres and the leases 7,343 acres.

Although zinc chloride is one of the most effective of wood preservatives, it will not give permanent protection. In time, water leaches out a considerable amount of the solution and also causes chemical decomposition of zinc chloride by the removal of excess amounts of chlorine, according to tests made by the Forest Products Laboratory.

Exports of cyanide in December were 115,258 pounds, valued at \$16,243; soda ash 3,010,314 pounds, valued at \$63,250; caustic soda 9,838,927 pounds, valued at \$336,584; bicarbonate of soda 1,598,877, valued at \$30,107; borax 2,700,382 pounds, valued at \$109,705.

An investigation of the Chilean nitrate monopoly, the opportunity in the United States to make nitrate from the air, and the conditions at Muscle Shoals will be made by the Department of Commerce.

## AGREEMENT SIGNED TO CONTROL SULFUR

An agreement between the Sulphur Export Association of the United States and representatives of the Italian Government was signed in Rome on March 15, according to cable advices. Under the agreement the Italian Government will control the output of Sicilian sulfur and co-operate with the three leading American producers, the Union Sulphur Co., Texas Gulf Sulphur Co. and Freeport Texas Co., for the sale of sulfur in Europe. C. A. Snyder, president of the Sulphur Export Association, concluded the negotiations in Rome on behalf of the American producers.

The Sulphur Export Corporation was organized in October, 1922, to take over the export sales of the three companies. Offices of the corporation are located in the Frasch Building, 33 Rector st., New York.

During the first six months of 1922 the exports of sulfur from Italy totalled 60,441 tons, nearly one-third of which, 19,523 tons, went to Greece. France took 9,141 tons, Germany 4,295 tons, Austria 3,057 tons, England 2,613 tons, Spain 2,650 tons, Yugoslavia 2,057 tons, Switzerland 1,045 tons, India 1,819 tons, Smyrna 2,646 tons, Asiatic Turkey 1,550 tons, Argentina 1,216 tons, Tunis 936 tons, Brazil 397 tons, Hungary 546 tons, Dutch West Indies 796 tons, Holland 620 tons, British South Africa 546 tons.

Sulfur quotations in Catania, Sicily, on March 3 per 100 kilos: Refined sulfur in blocks, lire 54; sublimed sulfur, lire 69; raw ground, lire 54; refined ground, lire 64; ventilated sulfur, lire 82. March 4, Milan, Italy, quotations: Double refined sulfur, lire 95 to 96; sieved sulfur, 104 to 105; sublimed sulfur, lire 100 to 105; sulfur blocks, 70 to 72 lire.

In an informal talk at the fifth Saturday luncheon at the Chemists' Club, New York, on March 17, M. Gaston Liebert, Consul General of France, outlined some of the reasons why France is now occupying the Ruhr district. M. Liebert confined his words to the political aspects of the Ruhr situation rather than the industrial effects of the French occupation.

The American Section of the Society of Chemical Industry will hold a meeting at the Chemists' Club on Friday, March 23. Henry O. Loebell, vice-president of the Combustion Utilities Corp.; J. J. Morgan, Department of Chemical Engineering, Columbia University, and A. C. Fieldner, Supervising Fuels Chemist, Bureau of Mines, will read papers.

Sodas and sodium compounds produced in the United States in 1921 were valued at \$81,884,100 as compared with \$99,689,828 in 1919. Soda ash occupied first place in point of both tonnage and value and caustic soda was next. Following were silicate, bichromate, phosphate, bicarbonate, borax and sal soda.

H. H. Dow, president of the Dow Chemical Co., Midland, Mich., has returned recently from a trip to Hawaii, Japan and other points of interest in the Orient. He was accompanied by Mrs. Dow and their three children.

The Drug and Chemical Square Club presented the United States Army Square Club with a silk flag bearing its official insignia, at the regular meeting of the Army Square Club at Governor's Island, March 6.

Henry H. Buckman, formerly president and manager of Buckman & Pritchard, Inc., 94 Fulton st., New York, has organized the Buckman Corporation to engage in chemical engineering practice in fertilizer, raw material and manufacture, with offices in Jacksonville, Fla.

The Drug and Chemical Square Club held a dinner-dance at the Hotel Pennsylvania on Tuesday evening.



## The Intermediate and Dye Market

Current Spot Quotations of Intermediates, see Chemicals, page 740

### PHENOL STOCKS ARE VERY LOW

**Prices Have Been Firm at Recent High Level—Naphthalene Also Scarce and Stronger—All Crudes Except Benzene in Short Supply—Intermediates in Demand—Alpha-Naphthylamine Advanced Again—Benzidine Much Stronger**

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced						
Alpha-naphthylamine, 2c lb.				Naphthalene, 1/4c lb.		
Benzidine, 2c lb.				Para-aminophenol, 10c lb.		
Dimethylaniline, 1c lb.				Para-toluidine, 5c lb.		
Dinitrobenzene, 1/2c lb.				Sodium Naphthionate, 4c lb.		
Declined						
Acid Anthranilic, ref., 10c lb.						
Trend of the Market						
	Last Today	Last Week	Last Month	Last Year	War Peak	Pre- War
Benzene, C.P. .... gal.	\$.30	\$.30	\$.30	\$.29	\$1.10	\$.26
Naphthalene, flake .... lb.	.07 1/2	.07	.06	.07 1/2	.16	.08
Phenol .... lb.	.50	.50	.35	.12	1.50	.43
Nylene, 2-dcg. .... gal.	.45	.45	.45	.45	..	..
Toluene, pure .... gal.	.30	.30	.30	.30	..	..
Aniline Oil .... lb.	.16	.16	.16	.15 1/2	1.40	.10 1/2
Benzaldehyde .... lb.	.60	.60	.60	.55	..	..
Betanaphthol, dist. .... lb.	.24	.24	.24	.28	1.90	.08
Paranitroaniline .... lb.	.74	.74	.74	.77	1.85	.18
Average .....	0.369	0.369	0.353	0.334	1.25	1.67

Business in coal-tar crudes is restricted to great extent because of the continued shortage of all these products, benzol excepted. Phenol supplies have been growing smaller and it is becoming increasingly difficult to locate material at the present prices. No one has any large quantity to offer and in most cases sales are confined to small lots. The total quantity available is estimated by some not to be more than one or two carlots. Natural phenol production is sold far in advance. Naphthalene has become scarce in the spot market and prices are advancing. Futures are also difficult to obtain definitely. Solvent naphtha and xylol are practically off the market at present and none is expected to be available for several months. Benzol supplies are in fairly good shape but toluol is very scarce. Intermediates are in steady demand in the domestic market. Export demand has been increasing, a number of sales having already been put through. Stocks of some intermediates have become very low and makers are unable to supply the demand. Alpha-naphthylamine has advanced again.

#### Coal-Tar Crudes

**Benzene**—Stocks are in fairly good shape and present demand is easily taken care of. Prices are unchanged at 27c@32c per gallon according to quantity for 90 per cent. C. P. is named at 30c@35c per gallon. Resale prices are quoted at 33c for the 90 per cent and 36c@37c for C. P.

**Cresylic Acid**—An occasional odd lot is uncovered in the market and the quality usually leaves much to be desired. Prices are quoted at \$1.50@\$1.60 per gallon. Domestic producers are sold well ahead and have nothing to offer for prompt delivery.

**Naphthalene**—Flake has become decidedly firmer on a growing scarcity of supplies. Resale prices are named at 7 1/2c@8clb. Some buyers are having difficulty in obtaining deliveries as per schedule. Makers' prices range from 6c@7clb. Balls are less active with prices at 7c@8clb. Crude is not too plentiful at 2 3/4c@3clb.

**Phenol**—Stocks have been pretty well taken up and there are no large quantities in anyone's hands. It is estimated that the total quantity available in the market would not exceed 50,000lbs. Some consumers are in dire straits at the present prices. Sales during the week were at prices from 48c@50clb. Domestic producers are swamped with inquiries and are unable to supply the newcomers.

**Toluene**—Producers have very little to offer for prompt delivery. Quotations are mainly for future delivery and are unchanged at 30c@35c per gallon. Production is said to be improving.

**Solvent Naphtha**—Makers have nothing at present and report that it will be several months before supplies will be available.

**Xylene**—The situation is similar to that of solvent naphtha. Some commercial material may be obtained at 29c@32clb.

#### Intermediates

**Acid, Anthranilic**—Prices for refined have been reduced and are now quoted at \$1.20lb. Technical is quoted at 96c@\$1.10lb as to quantity and seller.

**Acid, Gamma**—Consuming demand has been steady and supplies are moving in good volume. Prices range from \$1.70@\$1.80lb as to quantity.

**Acid, H**—Makers had very little to offer for prompt delivery, as their production is sold a month in advance. None to be had in the resale market. Prices steady at 80c@90clb, depending upon the quantity.

**Acid, Salicylic**—Divergence of prices according to seller. Another maker reported advanced prices. U.S.P. at 45c@50clb. Technical, 42c@47clb.

**Alpha-naphthylamine**—Demand has been increasing steadily and supplies are now in small volume. Makers have advanced their prices to 35c@37clb depending upon the quantity.

**Aniline Oil**—Demand is steady from the color makers while the rubber industry has been consuming large quantities. In drums prices named at 16 1/2c@17c lb. Tanks at 16clb.

**Aniline Salt**—Steady movement at 24c@25clb.

**Benzaldehyde**—Quiet with technical named at 65c@70clb. U.S.P. at \$1.40@\$1.50.

**Benzidine**—Increasing demand with firmer prices and limited supply. Held at 84c@86clb as to quantity.

**Beta-naphthol**—Makers are quoting ton lots at 23c@24clb and smaller quantities up to 25c@26clb. Demand is along steady lines.

**Diaminophenol**—Firmer at \$3.80lb on the higher costs of phenol.

**Dimethylaniline**—Producers have advanced prices and are now quoting drums at 43c@44clb depending upon the quantity. In a large way in tanks at 42clb. Increase due to higher costs of raw material.

**Nitrobenzene**—Moving regularly at 9 1/2c@10 1/2clb for crude in drums and redistilled at 10c@11clb.

**Ortho-toluidine**—Much firmer and it is doubtful if 14clb can be shaded in the market. The range is quoted at 14c@16clb as to seller.

**Para-aminophenol**—Higher costs of production have



made this product stronger and makers are naming \$1.25@1.50lb. Demand is improving with resumption of fur dyeing operations. Hydrochloride at \$1.50.

**Para-nitraniline**—Stocks have been decreased on increased demand and prices are firm at 74c@76clb as to quantity.

**Para-toluidine**—In active demand with no large quantities in sight. Sales are being made at 95c@1.00lb.

**Para-phenylenediamine**—Steady at \$1.55@1.60 on routine demand.

**Sodium Naphthionate**—Prices named at higher figures on increased cost of production. 62c@64clb as to quantity.

**Tolidine**—Quoted at 95c@97clb on routine demand.

**Xylidine**—Makers name 41c@45clb according to quantity.

### Dyestuff Notes

United States Exports of tanning extracts for January were Chestnut 843,794 pounds, valued \$35,136; other tanning extracts 2,333,554 pounds, valued \$108,820.

The British Dyestuffs Corporation has recently extended the field of its activities by manufacturing and selling organic compounds for the acceleration of the vulcanization of rubber.

The Smethport Extract Co., Damascus, Va., has acquired property in the vicinity of Helen, Ga., and is planning new works for the production of tannic acid, used in leather-tanning and other service. The plant will cost about \$25,000.

Imports of alizarin and alizarin dyes during November amounted to 4,449 pounds, valued at \$7,914; all other colors, dyes or stains and color bases 290,681 pounds, valued at \$393,654; and extracts for dyeing 344,908 pounds, valued at \$16,514.

A wide range of fast colors, some of them produced in the last three months, will be shown by E. I. du Pont de Nemours & Co. in an educational display featuring fast colors on hosiery and knit fabrics at the forthcoming Nineteenth Annual Knitting Arts Exhibition to be held in the Commercial Museum, Philadelphia, April 2nd to 6th.

Protests of Hensel, Bruckman & Lorbacher and H. R. Ackerman, that imported dyes or colors obtained from alizarin or anthracene and indigo should have been assessed at 30 per cent ad valorem under the tariff act of 1916 instead of 30 per cent and 4c per pound for some and 30 per cent and 5c per pound for the remainder, were sustained by the customs board.

A committee of five dye chemists has been appointed by the Secretary of Agriculture upon recommendation of W. G. Campbell, acting chief of the Bureau of Chemistry, to advise the Color Laboratory of the needs of the dye industry throughout the country and to formulate plans for the work of the Laboratory. The committee consists of R. Norris Shreve, secretary of the Dye Division of the American Chemical Society; Willard H. Watkins of the National Aniline & Chemical Co., Buffalo; Louis A. Olney of Massachusetts, president of the American Association of Textile Chemists and Colorists; Dr. William J. Hale, of Michigan, chairman of the Dye Division of the American Chemical Society, and Dr. Clarence G. Derick, of Buffalo, N. Y.

### CANADA'S DYE IMPORTS FLUCTUATE

The monthly report of the Trade of Canada for December gives the value of imports of dyeing and tanning materials as follows: From Great Britain, \$18,850; United States, \$239,766; other countries, \$66,301; total \$324,917; compared with imports from Britain, \$14,928; United States, \$300,863; other countries, \$91,540; total \$407,331 for December, 1921.

Imports of aniline and coal-tar dyes included in the above were as follows: From Britain 28,786 lbs., value \$15,388; United States 201,687 lbs., value \$113,396; Germany 31,046 lbs., value \$19,138; Netherlands 16,572 lbs., value \$17,645; Switzerland 13,105 lbs., value \$9,984; other countries 7,812 lbs., value \$7,037; total 299,008 lbs., value \$183,128; compared with imports from Britain 17,236 lbs., value \$13,001; United States 143,407 lbs., value \$134,193; Germany 7,388 lbs., value \$54,589; Netherlands 8,940 lbs., value \$11,547; Switzerland 14,886 lbs., value \$19,117; other countries 500 lbs., value \$121; total 192,357 lbs., value \$232,478, for December, 1921.

### GERMAN DYE INDUSTRY IS LESS ACTIVE

(Special to Drug & Chemical Markets)

Washington, D. C., March 21.—Reports from commercial attaches in France, Belgium, Austria and Germany tell of the effect of the occupation of the Ruhr on industries in those countries. One report received by cable says: "The coke shortage is more severely felt than coal, and about thirty-five blast furnaces have been shut down in Luxemburg, Lorraine and Eastern France since the middle of January. Coke prices have increased by 40 francs per ton, and coal prices are rising. Increased quantities of coal are being imported from England, and orders for coke are being placed in Czechoslovakia."

A report from Berlin says: "Business was brisk in the heavy chemical industry, particularly on account of big export sales; domestic consumers however, are complaining that low export prices are causing a selling out to foreign buyers. The dye industry is less active, and the immediate future is regarded highly uncertain."

An effort will be made to include statistics of coal-tar intermediates in the next report issued by the Department of Commerce, regarding detailed dye imports at New York. If arrangements cannot be made to include this in the March report, it will be done as soon as possible, according to advices from Washington. Later it is planned to add other coal-tar chemicals which are not dyes or intermediates and other synthetic organic chemicals from other than a coal-tar base, so that finally all items which are included in Paragraphs 27 and 28 of the new tariff act will be covered.

The Badische Anilin und Soda Fabrik, Germany's largest manufacturers of dyestuffs, is planning the erection of a synthetic nitrate plant in Toulouse, southern France, according to a recent Berlin announcement. It is understood that the French are to make a payment of 5,000,000 francs and that all the secret formulae for the manufacture of synthetic nitrates are to be turned over into French possession.

The German Dye Cartel proposes to treble the joint stock capital of the six dye plants incorporated in it during March, says a recent report. The present total capitalization of these plants is 2,800,000,000 marks, and the financial funds have become so inadequate as to necessitate the incurring of heavy obligations at the usual high percentage of interest.

## The Oil Market

Current Spot Quotations of Oils, Tallows, Greases, page 731

### COCONUT OIL UP IN ACTIVE MARKET

Buyers Take up all Available Supplies—Chinawood Oil Prices Advance Sharply on Scarcity of Supplies—Soya Bean Oil Higher—Linseed Oil Scarce and Higher—Cottonseed Oil Advances

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

		Advanced		Declined		No Declines	
		Trend of the Market		Trend of the Market		Trend of the Market	
		Today	Last Week	Today	Last Week	Today	Last Week
Chinawood Oil, 3c lb.							
Coconut Oil, Ceylon, 1/2c lb.							
Cochin, 1/2c lb.							
Manila, 1/2c lb.							
Corn Oil, crude, 1/2c lb.							
Cottonseed Oil, crude, 1/2c lb.							
Greases, 1/2c lb.							
Lard Oil, 1/2c lb.							
Linseed Oil, 2c gal.							
Oleo Oil, No. 1, 1/2c lb.							
No. 2, 1/2c lb.							
Olive Oil Foots, shipment, 1/2c lb.							
Palm Oil, Lagos, 1/2c lb.							
Niger, 1/2c lb.							
Palm Kernel Oil, 1/2c lb.							
Soya Bean Oil, crude, 1/2c lb.							
Stearine, Oleo, 1/2c lb.							
Tallow, extra, 1/2c lb.							
Edible, 1/2c lb.							
Tallow Oil, acidless, 1/2c@1/2c lb.							
Walnut Oil, 1/2c lb.							

Considerable activity in coconut oil was displayed during the week when prominent soap makers came into the market and bought up nearly all available supplies. Stocks in this country had been growing very small and after last weeks buying were at the lowest point in years. The market as a whole is active but the scarcity of supplies is holding up business. Only a few barrels of chinawood are left in sellers hands and prices have advanced sharply. Consumers are turning to soya bean oil and this market has become stronger on limited offerings and higher prices. Linseed oil is scarce on spot, crushers having difficulty in supplying contract orders. Prices have advanced for all quantities and positions. Seed is advancing in the Northwest. Cottonseed oil is active and quotations are higher. Olive oil foots are higher for shipment. Animal oils and animal products were active and several advances were noted. Greases are in better demand. Lard oil is higher. Oleo oil has advanced. Stearine and tallow are higher. Fish oils are scarce and prices more or less nominal.

#### Vegetable Oils

**Castor Oil**—Seed is scarce and the market is strong at 14c lb for No. 1 and 13 1/2c lb for No. 3 in barrels. Blown at 15 1/4c lb.

**Chinawood Oil**—Stocks are practically all bought up and there is very little oil coming out of China. Practices of adulteration are said to be going on in the Orient rendering unfit what little oil is shipped. Prices jumped to 25c lb on spot and for early shipment. No shipments were received the first three weeks in March.

**Coconut Oil**—Activity on the part of soap makers cleaned out practically all available stocks and prices

advanced sharply for all grades. Supplies are now at the lowest point in a number of years. Ceylon in barrels at 10c@10 1/4c lb, New York. Tanks, 9 1/4c lb. Cochin in barrels, 10 1/4c@11c lb. Tanks, 9 1/4c@10c lb. Manila in tanks at Coast, 8 1/2c@8 1/2c lb. Edible, N. Y., 11c@11 1/4c lb.

**Corn Oil**—The market is strong on scarcity of supplies and better demand. Crude in tanks at mills at 10 1/4c@10 3/4c lb. Refined in barrels N. Y. at 13 1/2c lb. Crude in barrels on spot at 12 1/2c@13c lb.

**Cottonseed Oil**—Crude is higher in the South and refined rose to higher levels in the market. P.S.Y. on spot at 12c@12 1/2c lb. Futures range from 12c@12 1/4c lb. Southeast, 10 1/4c@11c lb. Valley sales at 11c lb. Texas, 10 1/4c@11c lb.

**Linseed Oil**—Crushers have nothing to deliver on spot except in small quantities. Less carlots are named at \$1.04 per gallon. Futures up to June at 99c lb. London still at 41s. Antwerp, 344f. Flaxseed prices gained during the week. May Winnipeg opened the week at \$2.43 1/4. July, \$2.36. Duluth, cash, \$3.03. March, \$2.98 1/2. May, \$2.84. July, \$2.26. Buenos Aires, steady, \$1.85.

**Olive Oil**—Buying is along routine lines with denatured quoted at \$1.15@1.17. Edible is moving moderately at \$1.80@2.20 as to quality. Foots were steady at 9 1/4c@9 1/2c lb. For shipment prices were higher at 9 1/2c@9 3/4c lb.

**Palm Oil**—Offerings are somewhat limited while demand is active. Lagos is higher at 8 1/2c@8 5/8c lb. Niger firm at 8 1/2c@8 1/4c lb. No offerings of Calabar.

**Palm Kernel Oil**—Higher at 9 1/2c@9 3/4c lb.

**Peanut Oil**—Supplies are very limited and crude oil is nominal around 14c lb at mills. Refined on spot is offered in limited quantities at 17c@17 1/2c lb.

**Perilla Oil**—Nothing on spot while shipments are named at 15 1/4c@16c lb.

**Rapeseed Oil**—Refined offered at 85c to 86c lb. Blown is strong at \$1.05.

**Soya Bean Oil**—In more active demand while offerings are not large. Prices are higher for all grades and positions. Crude in barrels on spot at 12 1/2c@12 3/4c lb. In tanks, 10 1/2c@11 1/2c lb. Crude in tanks at Coast, 10 1/2c@10 5/8c lb. Refined named at 13 1/4c@13 1/2c lb.

#### Animal Oils

**Greases**—Better demand and prices were higher. White, 10 1/4c@11c lb. Yellow, 8 1/4c@9c lb. Brown, 8 1/2c@8 3/4c lb. House, 8 1/4c lb. Bone naphtha, 8 1/4c lb.

**Lard Oil**—Lower grade were more active and the market is strong. Edible prime quoted at 15 1/2c lb. Off prime, 14 1/4c lb. Extra, 14c lb. Extra No. 1, 13 3/4c lb. No. 1, 13 1/4c lb.

**Neatsfoot Oil**—Stocks were fairly good and prices could be shaded, though quoted at 18 1/2c@20c lb for 20 degree. 30 degree test at 15 1/4c@15 1/2c lb. Prime, 14 1/4c lb.

**Oleo Oil**—Higher prices were in effect due to limited supplies and active demand. No. 1, 13 1/4c lb. No. 2, 11 1/2c@12c lb. No. 3, 10 1/4c@10 1/2c lb.

**Red Oil**—Makers report a steady demand and that the market is strong on increased costs of production. Carlots named at 11 1/4c lb. Less cars, 12 1/4c lb.

**Stearic Acid**—Higher costs of tallow have made the market stronger. Quotations were unchanged, however, and double pressed is held at 14½¢lb in carlots and triple pressed at 16¢lb. Less cars ½¢ higher.

**Stearine**—Oleo active in a strong market at 11¼¢lb.

**Tallow**—The market continues strong with city extra higher at 9¾¢@9½¢lb. Edible was higher at 10¾¢@11¢lb in tierces.

#### Fish Oils

**Cod Oil**—Offerings were small and holders were firm in their prices of 71¢@72¢ per gallon for Newfoundland in barrels.

**Menhaden Oil**—Very little oil is available and the prices are nominal. Refined oils are firm, with light strained in barrels at 75¢@76¢. Yellow bleached at 78¢ per gallon.

#### Naval Stores

**Turpentine**—The market was somewhat irregular and prices moved up for a few days and then settled to \$1.53 for spirits. Wood turpentine was steady at \$1.43. Savannah, steady at \$1.44@1.45.

**Rosin**—Prices dropped on lack of business and increased offerings in the primary markets. B, \$6.00. D to I, \$6.15. K, \$6.20. M, \$6.25. N, \$6.35. WG, \$7.00. WW, \$8.00.

Practical and profitable methods for the production of naval stores are being demonstrated in the South by George P. Shingler, Jr., of the Bureau of Chemistry, who has had much technical and practical experience in naval stores production. The object of the naval stores demonstration is to help the individual producer conduct his operations in the most profitable and practical way. During the month of April Mr. Shingler will be located at the U. S. Customs House, Savannah, Ga.

The Greater New York Clean Up and Paint Up Campaign Committee, 15 Park Row, Room 1819, announces that more money will be spent this year than was spent in any previous campaign by several thousand dollars. If sufficient funds are available, prizes will be given for the best floats, costumes and slogans, in the mammoth parade which will be given the Saturday prior to Clean-up and Paint-up Week.

F. P. Veitch of the Bureau of Chemistry who will have charge of the enforcement of the Harrison Naval Stores Act, is outlining his plans. A number of inspectors will be employed by the Bureau of Chemistry to test the purity of turpentine and look into the grading of resin as provided for in the act.

The Greek import tariff on soap-making oils has been virtually doubled by a recent Government ruling. Articles not specified in the law will hereafter be dutiable at 40 per cent ad valorem, based on the c. i. f. value at the port of entry.

The total value of naval stores, including wood tar, wood turpentine, spirits of turpentine, gums, and rosins, exported from the United States in 1922 amounted to \$18,510,331 over against \$11,449,253 in 1921.

The liner President Jackson arrived at Seattle, Wash., early in March from the Orient with a cargo of 600 tons of wood oil, one of the largest cargoes of this kind ever handled at this port.

The Paraffine Companies, Inc., San Francisco, Cal., has received bids for the construction of a new plant building at Antioch, estimated to cost \$40,000.

Imports of linseed oil during November amounted to 196,536 pounds, valued at \$17,836; flaxseed 1,428,322 bushels, valued at \$2,895,714.

## Oil Trade Notes

Robert Cannon Judge, vice-president of the Peaslee-Gaulbert Co., died at his home in Louisville, Ky., following a stroke of paralysis. He was sixty-two years old.

The Bureau of Standards, Washington, D. C., has issued the third edition of its booklet on soap, first published in 1916. The second edition came out in 1919.

The Bisbee Linseed Co., Drexel Building, Philadelphia, Pa., has filed plans for the erection of a one-story plant at Delaware ave. and Bigler st., estimated to cost \$15,000.

The Prince Metallic Paint Co., Bowmansville, Pa., is planning extensions to its plant for considerable increase in output. Additional machinery will be installed in various departments for this purpose.

Belgium imported 15,053,616 kilos of coconut oil in 1921 compared with 16,288,917 kilos in 1920. Cottonseed import figures for these two years were 1,916,957 kilos and 2,448,205 kilos. Linseed, 3,083,582 kilos and 3,535,611 kilos. Palm and palm kernel, 7,161,438 kilos and 6,919,690 kilos.

George W. Habbersett, Inc., of 327 North Howard street, Baltimore, have been incorporated under the laws of Maryland with capital stock of \$50,000 to manufacture and deal in paints, oils and hardware. The incorporators are George W. Habbersett, William C. Habbersett and Louisa V. Habbersett.

The Piccadilly Ink Co., Baltimore, Md., has acquired a three-story plant on Linden ave. for a new plant for the manufacture of writing inks. A portion of the building will be devoted to analytical laboratories, and equipment for this purpose will be installed. The company was recently incorporated with capital of \$100,000 and is headed by R. F. Humphries, Jr., and E. H. Wright.

Vegetable oils exported to the United States from Japan in 1920 were as follows: Refined castor, 42,486 gallons; chinawood, 25,800 lbs.; coconut, 1,340,050 lbs.; cottonseed refined, 2,850,075 lbs.; peanut, refined, 9,645,984 gallons; peanuts, 79,492,412 lbs.; sesame, 760,530 lbs.; rape, 1,378,859 gallons; linseed, 407,810 gallons; soya bean, refined, 34,811,563 lbs.; perilla, 5,584,506 lbs. In 1921 figures for rape were 185,087 gallons; linseed, 103,660 gallons; perilla, 672,074 lbs.

The Latvian flax crop of 1922 is estimated to be 100 per cent larger than in 1921, the increase being due to a larger yield per acre and an increase in the acreage under cultivation, 102,600 acres having been sown. The methods of raising flax are still primitive and the Government is urging improvements in order that the income from this source may be increased. About 210,000 kilos of flax yarn per month are produced in the five flax spinning mills in Latvia.

The Oil Trades Association of New York held its annual business meeting and election of officers and directors at the Hotel Commodore on March 13, with President Alpin I. Dunn presiding. The new officers elected are: President, Dennis E. Bergen; vice-president, Byron Morgan; treasurer, Philip C. Meon; secretary, Joseph C. Smith. The officers were elected directors also, with the following: Alpin I. Dunn, Frederick J. Snyder, Albert J. Squier, T. J. Skidmore and John Murray. Two more directors are to be elected later.



## The Fine Chemical Market

Current Spot Quotations of Fine Chemicals, page 740

### THIRD MAKER ADVANCES SALICYLATES

**All Producers Now in Accord at Higher Levels—One Maker Has Not Raised Aspirin—Acid Carbohic Small Sizes Up Five Cents—Coumarin Advanced Fifty Cents—Quicksilver Reacts—Formaldehyde Easier**

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Acid Carbohic, Sml. Sze., 5c lb.	Coumarin, 50c lb.
Acid Acetylsalicyc., Resale, 5c lb.	Methyl Salicylate, 5c lb.
Acid Citric, Imp., 1/2c lb.	Potass. Permanganate, 1c lb.
Acid Salicylic, USP, 5c lb.	Sodium Salicylate, 5c lb.
Declined	
Camphor, Jap., ref., 1c lb.	Formaldehyde, Resale, 1/2c lb.
Chrysarobin, \$1 lb.	Mercury, \$2 flask
	Terpin Hydrate, 3c lb.

#### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acetanilid .....	\$35	\$35	\$35	\$33	\$2.00	\$2.20
Acid Citric, Import .....	.29	.48 1/2	.48 1/2	.43	1.25	.45
Caffeine Alkaloid .....	3.75	3.75	3.75	4.00	18.00	3.65
Calomel, American .....	1.25	1.25	1.25	.82	3.43	.90
Camphor, Jap., ref. ....	.90	.91	.90	.92	3.55	.41
Iodine, Resublimed .....	4.55	4.65	4.50	3.80	5.00	3.75
Menthol .....	8.25	8.25	8.00	5.25	13.50	3.00
Morphine Sulfate .....	5.35	5.35	5.35	4.80	12.80	4.50
Potassium Bromide, Cryst. ....	.26	.26	.26	.19	4.30	.80
Quinine Sulfate, Imp. ....	.50	.50	.50	.59 1/2	.50	.25
Sodium Salicylate .....	.37	.52	.47	.30	4.25	.27
Strychnine Sulfate .....	.84	.84	.84	1.05	2.05	.50
Average .....	2.24	2.24	2.21	1.83	5.92	1.56

The effect of a few very strong chemicals rising steadily appears to be putting the whole market in this frame of mind. Quicksilver and the salicylates have held the center of the stage. All manufacturers of salicylates are now in line at the higher levels named by one of the makers some two weeks ago. The position of phenol has made this imperative and will likely mean further advances. Carbohic acid small sizes are up five cents. Citric acid is firmer. Antipyrine is very strong. Cheap lots of amidopyrine have been eliminated. Cod liver oil is slightly easier both here and abroad. Makers have advanced coumarin sharply. Formaldehyde is slightly easier in outside hands. Glycerin has softened somewhat. Spot quicksilver weakened on continued absence of demand and lower prices in London. Supplies of resale chemicals generally have been cut down and business is tending toward makers' hands more and more each week.

**Acid Acetylsalicylic**—One maker still adheres to \$1.05 lb. Other quotes \$1.10 unchanged. Resale goods at 95c up to \$1.00. Outside stocks materially cut down during the past fortnight.

**Acid Carbohic**—Distributors of small sized containers have advanced prices 5c lb. and now quote one pound bottles or cans at 56c lb. Tins 50 lb. are held at 48c, 25c lb. tins at 49c, 5 lb. tins at 51c, 5 lb. bottles at 52c. Liquid carbohic at 55c lb. 1 lb. bottles, 5 lb. 51c. lb. This advance has been expected daily, and surprise has been expressed in the trade that it has not taken place before. With large drums on the open market hard to get at 50c, distributors of small sizes are selling in limited quantities only to regular customers.

**Acid Citric**—Shipment is heard at 34c c.i.f. in line with generally higher prices for all Sicilian products in the citrus line. Spot kegs are held at 49c and 49 1/2c lb. inside. American makers are reported getting a large

percentage of the business at 49c@50c lb. and well able to take care of it. Demand shows a seasonal increase on spot, but buying for import has been inhibited by the higher prices.

**Acid Salicylic**—All makers are now in accord on the higher price of U.S.P. acid at 50c per lb. basis 100 lb. lots. The last manufacturer came into line early this week. Contrary to the reports of the "seven" manufacturers of salicylates who have been heard of quite frequently of late, the three makers who are producing to-day really acted as follows: 1. No. 1 went up on all salicylates two weeks ago on the advancing cost of phenol. 2. The next maker went up a week ago. 3. The last maker followed Monday of this week. Now, all three manufacturers—all there are who are producing to-day in America—are in accord at 50c on acid and 57c on sodium salicylate. Based on the present phenol outlook, a salicylate market fifty per cent higher than the present is a probability.

**Alcohol**—Fairly steady buying of denatured has been reported during the past week at prices from 33c to 35c gal. drums extra, Nos. 5, 6 and 1 special. Methanol is quiet and unchanged at \$1.15@1.20 gal. and \$1.25@1.30 for pure. U.S.P. alcohol at \$4.60@4.70, and \$4.75 for Cologne spirits.

**Aloin**—Very strong owing to the position of aloes, but unchanged at 85c lb spot.

**Amidopyrine**—Spot inside now looks like \$4.60 lb. ranging to \$5.00 lb. as weakly held lots have been bought up and eliminated from competition.

**Amyl Acetate**—Continues very scarce and now held at \$3.50@4.00 gal. for spot technical in drums.

**Antipyrine**—Very strong on spot. Holders are inclined to name \$3.00 lb., although lots can still be bought in a limited way at \$2.75@2.85 lb. Import cost means higher prices, according to the trade.

**Camphor**—Position on spot is somewhat easier with demand taking routine quantities on spot at 90c lb. for Japanese slabs in cases. Tablets at \$1.00@1.02 lb. American refiners adhere to their schedule of 96c basis bulk gum in bbls. Not a great deal of current activity in spot buying of camphor.

**Chloroform**—Offer of a limited lot of resale chloroform on spot at 30c lb. for large drums. Makers adhere to 35c for U.S.P. unchanged.

**Cod Liver Oil**—Named at \$21.00 bbl. c.i.f. for shipment from Norway. Spot at \$22.00 up to \$23.00 bbl. as to brand and seller. Demand slow. Some fishing difficulties abroad due to storms but quantity yield of fish and oil to date has been satisfactory.

**Coumarin**—Makers advanced prices the middle of last week to \$4.50 lb. inside on higher cost. Following the makers' advance, all available resale stocks on spot were bought up quickly at \$4.00, \$4.10 and \$4.25. Nothing in outside hands now at less than manufacturers' schedule. Position very strong.

**Cream Tartar**—Quiet and unchanged with little buying in a big way. Prices for spot imported at 24c up to 25c lb. bbls. as to seller and brand. American makers at 26 1/2c unchanged.

**Formaldehyde**—Easier in resale quarters with buyers not greatly interested, although the past week has seen



better business than during the previous two weeks. Outside goods in bbls. at 14½¢@15¢ lb. Manufacturers at 16¢ named. Reported fair demand for export.

**Glycerin**—Not as strong as formerly noted. C. P. at 18½¢ in drums and 20¢ cans from refiners. Dynamite easier at 17¢.

**Menthol**—Prices unchanged at \$8.25 lb. spot cases and \$8.40@\$8.50 less cases. Large stocks reported afloat nearby, most of which, however, is going to the chief importer in New York. Shipment said to total 250 cases, 50 to smaller operators here. Demand steady and fair quantities moving in small lots.

**Mercury**—Every importer has a theory to account for the recent sharp rise to \$75.00 spot and £12 12s in London. Some say war in the Balkans; some say England's dislike of Spain shipping direct to the United States; others that Spain's output has been contracted for some months ahead; and still others that Spain and Italy have come to a selling agreement. The choice of a reason does not alter the fact that the American market went up about seven dollars a flask last week in the face of absent demand. Consumers, however, did not make any move to buy at \$75.00. One holder is reported to have dropped back to \$72.00 under financial pressure without getting many "bites" from buyers. Others at \$73.00 spot at the close. Shipment, duty paid, at \$73.00. London has dropped back to £12 from £12 12s.

**Methyl Salicylate**—In line with higher acid prices, methyl salicylate has moved up to 62¢ lb. basis 50 lb. cases, and 60¢ basis drums according to producers' new figures. Resale lots are offered in a small way five or six cents under this.

**Potassium Permanganate**—Prices continue to creep upward. April shipment from abroad, laid down N. Y., was quoted 21¢ early this week. Spot named at 21¢ and stocks restricted at this level.

**Quinine**—Moving steadily into consuming channels at 50¢ oz. for American, Dutch or Japanese.

**Salol**—Did not share in the general salicylate rise, still holding at 90¢ lb. basis 100 lb. lots, 95¢ less from makers.

**Sodium Salicylate**—Up to 57¢ lb. U.S.P. from makers basis 100 lb. lots in line with higher acid quotations.

**Terpin Hydrate**—Prices have been reduced slightly to a basis of 70¢ lb. for 100 lb. kegs.

**Thymol**—Dull and easy at the recent decline to \$3.00 lb.

All permits to purchase alcohol or liquor in any quantity must be confirmed before delivery is allowed to be made from wholesale drug stocks. For some time past it has been customary to allow small orders of alcohol and whiskey to be filled without securing confirmation from the Prohibition Director approving the original permit to purchase. This exemption of small lots has been withdrawn by T. D. 3449. An effort is being made at Washington by the National Wholesale Druggists' Association to secure relief from this requirement so far as orders of small quantities of alcohol only are concerned.

Construction work on a new office building, the first of a number of improvements to be made at the plant of Eli Lilly & Co., Indianapolis, has been begun. The new building is to be a four-story reinforced concrete structure, faced with brick and trimmed with terra cotta. It is to occupy a site at the northwest corner of Alabama and McCarty streets, and will have a fifty-foot frontage on McCarty street and 185 feet on Alabama. It will cost about \$300,000.

## WILL INVESTIGATE PRODUCTION COSTS

Decision was reached on March 14 by the Tariff Commission to proceed with investigations into the cost of production of some thirty selected commodities, with a view to recommendation to President Harding for the application of the elastic provisions of the tariff act. Secretary John F. Bethune has been instructed to prepare a statement of the program to be carried out by the commission under Section 315 of the act. Included in this list of commodities that has recently appeared, it is understood, are articles covered by the chemical and textile schedules of the law, and investigations to be made by the commissions experts both in this country and abroad into production costs will develop grounds for suggesting lower custom rates in some instances and higher duties in others.

The commission officials estimate that several months will be required for field investigations before public hearings can be held upon proper duties to be levied in order to equalize production costs in this country with those abroad in the cases of the commodities selected. Some difficulty is anticipated by the commission in obtaining foreign production costs in certain instances, but it has been suggested that the price level at which an imported article sold in this country over a given period could be used as a basis for comparison.

The articles upon which investigations have been ordered are as follows: Oxalic acid (Par. 1); Diethyl barbituric acid and derivatives thereof (Par. 5); Barium dioxide (Par. 12); Casein (Par. 19); Logwood extract (Par. 39); Potassium chlorate (Par. 80); Sodium nitrate (Par. 83); Mirror plates (Par. 223); Pig iron (Par. 301); Swiss pattern files (Par. 362); Paint brush handles (Par. 410); Sugar (Par. 501); Cotton warp-knit fabric (Par. 914); Cotton gloves made of warp-knit fabric (Par. 915 and 1430); Cotton hosiery for infants (Par. 916); Wall pockets (Par. 1313); Artificial or ornamental fruits, vegetables, grains, leaves, flowers and stems or parts thereof (Par. 1419).

## GOOD LOFOTEN COD OIL YIELD REPORTED

Heinr. Meyer & Co., Christiania, Norway, have sent the following report of the Lofoten cod liver oil production for the present season as of March 1 as compared with 1921 and 1922 to their American representatives, F. W. Mead & Co., New York: "The fishings at Lofoten and neighborhood are up to expectations. The price for livers has gone up and the present price is expected to keep for the season. The official results are as follows in Lofoten: 2,700,000 pieces cod, 5,794 hectolitres oil; 1922, 1,830,000 pieces cod, 3,964 hectolitres oil; 1921, 4,000,000 pieces cod, 7,405 hectolitres oil. For all Norway: 6,300,000 pieces cod, 12,921 hectolitres oil; 1922, 5,000,000 pieces cod, 10,702 hectolitres oil; 1921, 6,900,000 pieces cod, 12,571 hectolitres oil. The market is firmer and the actual price paid for best non-freezing 1923 Lofoten oil is 90s c.i.f. London and \$21 c.i.f. New York.

## BREWERY'S ALCOHOL OUTPUT SEIZED

Ten drums marked "denatured alcohol" were seized in Chicago by dry agents under A. R. Harris, prohibition agent, when being delivered at the factory of a flavoring extract maker. The drums were shipped by the Atlas Brewing Co., of Chicago, which now faces a charge of redistilling the by-product recovered from beer when reduced to legal alcoholic content, and selling it illegally without paying the Government tax.

A total seizure of 73,416 gallons was made, and four men were arrested and held under bail on a charge of violating the Volstead Act. Punitive fines, if enforced as provided in the law, would amount to \$939,624.

## The Crude Drug Market

Current Spot Quotations of Crude Drugs, page 755

### ERGOT POSITION ON SPOT DEMORALIZED

Trading Centers Oversupplied by Central Europe  
Shipments—Gingers Strong and Tending Upward—  
Buchu Easier—Henbane and Quince Seed Lower—  
Curacao Aloes Scarce—Spanish Aniseed Firmer

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced		Declined	
Aloes, Curacao, ½ lb.	Condurango Bk., 4c lb.	Henbane Lvs., 10c lb.	
Balsam, Tolu, 2½c lb.	Ginger, Afr., ½c lb.	Manna, Sml. Flk., 2c lb.	
Benzoin, Siam, 10c lb.	Japanese, ½c lb.	Nux Vomica, ½c lb.	
Caraway Seed, 1c lb.	Saffron, Span., \$1 lb.	Poppy Seed, ½c lb.	
	Sarsaparilla Rt., Mex., 2c lb.	Quince Seed, 10c lb.	

#### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Aconite Root, U.S.P.	\$ .40	\$ .40	\$ .40	\$ .22	\$ .90	\$ .12
Buchu Leaves, Short	.95	.95	1.05	1.08	4.00	.85
Cantharides, Russian	1.75	1.75	2.00	2.25	9.00	2.10
Cocculus Indicus	.03½	.03½	.03½	.06½	.85	.03
Ergot, Spanish	.33	.55	.60	1.03	4.50	.34
Insect Powder, pure	.75	.75	.75	.42	1.00	.28
Ipecac, Cartagena, pwd.	2.60	2.00	1.75	1.60	4.50	1.35
Nux Vomica	.07	.07	.07	.10	14½	.07
Opium, gum	6.75	6.75	6.75	5.50	30.00	5.00
Rhubarb Root, H. D.	.40	.40	.45	.50	1.75	.15
Tragacanth, No. 1, ribbon	1.70	1.70	1.75	2.50	6.00	1.50
Wild Cherry Bk., thin nat.	.09	.09	.08	.09	.21	.07
Average	1.36	1.36	1.36	1.35	5.28	1.00

Along toward the close of last week, business began to pick up. Although the previous period had seen a steady call for small lots of botanicals, buyers refused to cover for large quantities. Early this week, however, a number of larger sized orders were reported in the market. Prices have their ups and downs with no definite trend generally noted except perhaps in that group of scarce imported goods which have been moving upward for some time past. The belief seems well founded, however, that lower prices over a broad area with the arrival of new crop goods, will not materialize this year owing to the small stocks held in most of the large trading centers. Of course, some kind of a slight reaction may follow new crop offers, but it is generally believed that buyers who have been holding off for materially lower prices, will be disappointed when the new collections come to market. Buchu is easier. Caraway seed is firmer. Balsam Peru is down while tolu is up. Ergot is very weak. Gum arabic continues easier at the previously reported lower prices. Henbane, U. S. P., is lower. Guaiac is down slightly. Quince seed is cheaper.

**Aloes**—For the reduced stocks of Curacao which are held in New York, 9c is inside and 10c is quoted in some instances. Little offered for shipment.

**Aniseed**—Spanish strong on spot. Stocks small and closely held. Prices range from 26c up to 28c with some sellers predicting a 30c market and not quoting at the present time. From some quarters, buying has been quite active.

**Arabic Gum**—Spot amber sorts are in larger supply and easier with prices varying between 15½c and 18c lb. as to seller and quantity. Demand is steady, but competition is keener.

**Arnica Flowers**—Dull and unchanged at 11c lb. spot with demand light.

**Arrowroot**—Nothing to be had just at present on spot. St. Vincent to arrive at 12c lb. bbls.

**Balsams**—Tolu balsam, cleaned, is higher spot at 82½c lb. which marks a rise from 70c within a couple of weeks. Scarce and firm. Peru balsam is again lower and now down to \$1.80 lb. spot. Oregon fir balsam is nominal on spot with goods near-by en route offered at \$2.85 gallon.

**Benzoin**—Siam benzoin has been moved up 10c per lb. and is now inside on spot at \$1.10 for good quality. Sumatra is soft and quiet at 32c@34c lb. spot.

**Buchu Leaves**—Sales of single bales spot at 92c lb. last week and reports of larger lots at 90c lb., but unconfirmed. Demand continues dull for spot goods. Imports last week totaled 47 bales at New York. Spot position easy, but believed to be about as low as is compatible with Cape Town costs.

**Cantharides**—Offer of spot powdered Russian at \$1.75 lb. this week. Other holders at \$1.90@2.00 lb. No whole located under \$1.75 cases. The cheap powder reported to be war goods.

**Caraway Seed**—Firmer and prices tend up at present. Spot now 30c bags for Dutch with small lots held at 31c.

**Cardamom Seed**—Unchanged. Very strong. Decorated \$1.15 spot; green \$1.05; bleached \$1.10 up to \$1.70 for decent seed.

**Cascara Sagrada**—Firm in all quarters. Many holders believe it is due for a material advance within a few months. Spot 1922 peel at 14c; 1921 at 14½c; 1920 at 14¾c@15c. Coast stocks below normal.

**Cloves**—The market has softened slightly, but for just what reason is impossible to say. Spot bales at 26c@26½c lb. Zanzibars. The essential oil has slipped off on the weaker spice position this week.

**Condurango Bark**—Spot bales reported materially higher at 14c@15c lb.

**Cubeb Berries**—Soft and in small demand at 82c@85c lb. spot XX in bags.

**Culvers Root**—Reports of shading spot prices are likely to be true judging from the position of the root. Spot at 28c@29c lb. reported.

**Dandelion Root**—Although spot prices are heard at 14c, 15c and 16c lb., import cost is very high and, if sustained, advanced prices are likely to follow.

**Elm Bark**—Selected bundles quiet and easy at 25c@26c lb. awaiting new crop developments.

**Ergot**—Extremely weak. The market appears demoralized for some reason not quite clear. Cheap lots are held on spot and their offer at low prices is not inducing buying. Sales in a small way at 52c lb. for either Russian or Spanish. Could be bought at 50c in larger lots without difficulty. Ergot is in one of the worst slumps of the past ten years. Because of the influx of goods from Central and Eastern Europe, in addition to the regular Spanish goods, this market as well as others is oversupplied at this time.

**Ginger**—Jamaica continues very strong with higher prices predicted freely by the trade. Shipment slightly higher than last week. Considerable buying during the week at 35c up to 45c as to quantity and

quality. Much covering of goods afloat. Japan and African very short, 15½¢@16. Gochin same prices.

**Guaiaac Gum**—Lower prices of new spot goods are noted this week at 40¢lb.

**Henbane Leaves**—Spot U. S. P. leaves have been offered down to 40¢lb. during the past week. Ranges to 50¢lb. as to seller. Unassayed goods from 33¢ up to 36¢lb. Position generally easier with supplies larger.

**Insect Powder**—Firm and unchanged. Millers 75¢ lb. pure powder bbls. Flowers quoted higher from some quarters in Trieste. Steady demand from jobbing trade. One lot still offered spot at 70¢lb.

**Ipecac Root**—Scarce and hard to find. Named \$1.90@\$2.00lb.

**Lycopodium**—Firmer and higher at 42¢@45¢lb. spot. for small lots. In a big way at 40¢ still. Demand better.

**Manna**—Small flake slightly cheaper at 33¢lb. spot cases. Large 58¢.

**Poppy Seed**—Easier with larger spot stocks and lessened demand at 12½¢lb. Dutch.

**Quince Seed**—Lower priced goods on spot at \$1.35, \$1.40 and \$1.45lb. as to sellers and quality. Generally easier and in better supply here.

**Rhubarb**—Quiet and in small demand at 40¢@41¢lb. spot cases. Powder bbls. at 46¢lb.

**Saffron**—Several cases of Spanish on a boat which is ashore near New York. Offered on an if and when released basis at \$46.00lb. in five lb. lots. Spot at \$47.00lb. American named at \$1.25@\$1.30lb.

**Sarsaparilla Root**—Mexican again higher spot at 28¢lb. Sales reported at this figure this week. Quoted to 30¢.

The clove crop of 1922 in the Zanzibar Protectorate is estimated at 1,000,000 farsalahs (35,000,000 pounds), although the results depend somewhat on labor conditions at harvesting time. The average November prices were 12.1 rupees \$(3.91) and 14.14 rupees \$(4.82). The total arrivals in November were 5,040,280 pounds (36,002 bales of 140 pounds each), of which 4,699,100 pounds were exported. Shipments to the United States amounted to 1,448,860 pounds.

Protests are being received by the Treasury Department in connection with the narcotic embargo which was put in effect on Jan. 1. The protests, which are mostly from large drug manufacturers, state in some cases that if licenses are not issued for the importation of narcotics some of the drug manufacturers will have to shut down their plants.

An exporter in Abyssinia desires to communicate with American firms or commission houses desiring to import Aden gum. Further information may be obtained by communicating with the Chemical Division, Bureau of Foreign and Domestic Commerce, Washington, D. C., and referring to file No. 81864.

A list of commission merchants and wholesale druggists operating in Alexandria and Cairo, Egypt, may be obtained from the Bureau of Foreign and Domestic Commerce, Washington, D. C., by reference to file number CL-58.

Frank H. Herman who has been with the Biddle Purchasing Co. for the last three years as manager of the drug department severed his connection with the company on March 15.

A license of \$100, a year is required of itinerant vendors of drugs, nostrums and toilet articles, by a bill introduced in the Michigan Senate (No. 204).

## DRUG GRINDERS OUTPUT DECREASES

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., March 21.—The value of products of establishments engaged chiefly in grinding drugs amounted to \$10,086,000 in 1921, as compared with \$16,938,000 in 1919 and \$8,080,000 in 1914, a decrease of 40 per cent from 1919 to 1921, but an increase of 25 per cent for the seven year period 1914 to 1921 according to the Census Bureau. This industry includes establishments that grind drugs of all kinds, herbs, roots, gums, charcoal, etc. However, there are no statistics available in regard to the value of the drugs ground by the establishments classified under Patent medicines and compounds and Druggists' preparations.

Of the 28 establishments reporting products valued at \$5,000 and over in 1921, 7 were located in New York, 6 in New Jersey; 4 in Pennsylvania; 2 each in Illinois and Massachusetts; and 1 each in Maryland, Michigan, Minnesota, North Carolina, Tennessee, Virginia, and Wisconsin.

## CHICLE CO. OWES LARGE INCOME TAX

Thomas H. Blodgett, president of the American Chicle Co., in his annual report says:

Within the year 1922 the company has paid in cash the sum of \$1,236,508 for reduction of debts and interest on debts. An agreement has been reached with creditor banks and representatives of serial noteholders providing for extensions of the indebtedness, effective Oct. 1, 1922. The interest rate was so reduced as to mean a saving of more than \$25,000 a year compared with the year 1921.

Exceeding in seriousness all other problems confronting the company at present is a claim by the U. S. Government for \$883,023 income and profits taxes accrued against operations for the years 1916, 1917, 1918 and 1919. Prior to this claim the company had paid to the Federal Government the sum of \$848,301 as income and profits taxes for the years in question.

## FRENCH CRUDE DRUG MARKET IS STEADY

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Marseilles, March 10.—The crude drug market continues steady. Quotations per 100 kilos are:

Francs	Francs
Agar agar .....4000	Cumin, Bombay 710
Aloes .....250@255	Fennel .....280@300
Benzoin .....360@400	Gambier .....220
Asafetida .....800@850	Foenugreek .....180
Camphor, refined .....3200	Henna .....400
Cardamom .....750@800	Nutgalls .....300@350
Cochineal .....1100	Mustard, Bombay 175
Cumin, Maroc ..775	Mustard, Italy ..200
Opium, 8@9% ..Nominal	Sabadilla .....2200
	Sarsaparilla ....2200

## CHICAGO DRUG MEN NOMINATE OFFICERS

The nominating committee appointed by George T. Turner, president of the Chicago Drug and Chemical Association, reports the following list of names selected by them as candidates to be voted for at the annual election to be held March 30: President, A. C. Stepan; vice-president, John F. Matthes; secretary, C. S. Curtis; treasurer, C. P. McConnell. Directors for term of two years—L. J. Freundt, A. J. Gazzolo, Wm. O'Neill, Geo. W. Wright.

The new directory of the association is in readiness for the printer and will go to press immediately after election.



## The Essential Oil Market

Current Spot Quotations of Essential Oils, page 757; Aromatic Chemicals, page 758

### HIGHER PRICES FOR LEMON AND ORANGE

Spot Figures up on Higher Shipment—Oil Clove Lower on Spice Weakening—Bergamot Stronger—Further Advance in Spot Sandalwood—Makers Advance Coumarin 50c—Resale Stocks Bought Up

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced						
Oil Bergamot, 10c lb.				Oil Limes, dis., 5c lb.		
Oil Cardamom, \$2.00 lb.				Oil Orange, 15c lb.		
Oil Cassia, 5c lb.				Oil Petit Grain, 5c lb.		
Oil Eucalyptus, 1c lb.				Oil Pimento, 10c lb.		
Oil Lemon, 5c lb.				Oil Sandalwood, 10c lb.		
Oil Lemongrass, 5c lb.				Oil Sassafras, 10c lb.		
				Coumarin, 50c lb.		
Declined						
Oil Caraway, 25c lb.						
Oil Cloves, 10c lb.						
Oil Hemlock, 10c lb.						
Trend of the Market						
	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Oil Bergamot .....	\$2.60	\$2.50	\$2.50	\$5.00	\$7.00	\$5.00
Oil Citronella, Ceylon.....	.70	.70	.72	.55	.92	.60
Oil Cloves .....	1.80	1.90	1.85	2.15	3.70	1.40
Oil Lemon .....	.75	.70	.67	.85	1.70	2.00
Oil Peppermint, Nat.....	2.75	2.75	2.85	1.70	9.00	2.25
Oil Sandalwood, E. I.....	7.85	7.75	7.35	1.25	13.00	5.25
Oil Sassafras, Artif.....	.42	.42	.42	.46	1.00	.26
Benzaldehyde, U.S.P.....	1.40	1.40	1.40	1.40	5.15	1.50
Coumarin .....	4.50	4.00	4.00	3.15	31.00	3.10
Methyl Salicylate, Cans....	.57	.57	.57	.35	1.00	.90
Vanillin .....	.41	.41	.45	.55	.95	.29
Average .....	2.18	2.12	2.08	2.16	6.83	2.05

The essential oil market shows marked advance in a number of important items. Consumers are coming into the market on a broad scale.

Foreign sellers are quoting higher prices for shipment on some products. The most noted advance this week was that of orange and lemon oils. Bergamot is stronger and has advanced. Oil cassia advanced slightly in firmer market. Citronella continued very firm. Cardamom oil went up in sympathy with seed prices. Oil petit grain is firmer. Sandalwood continues to advance. Natural sassafras moved higher. Oil cloves is lower on easier spice position. Caraway is down.

#### Essential Oils

**Oil Anise**—Technical remains same at 45c@50c lb. U. S. P. firmer at 52½c@55c lb.

**Oil Bergamot**—Cannot be had for less than \$2.60 lb. as compared with \$2.50 lb. last week.

**Oil Almond**—Sweet oil is easy at 35c@40c lb. Bitter oil still maintains \$3.75@4.00 lb.

**Oil Camphor**—Japanese white quiet and unchanged on spot. Selling for 13c@13½c lb. in drums and 13½c@15c lb. in cases.

**Oil Cardamom**—Advanced in sympathy with seed prices to \$20.00@22.00 lb.

**Oil Cassia**—Sellers are asking \$2.25 lb. for redistilled as compared with \$2.15@2.20 lb. a week ago.

**Oil Citronella**—Spot stocks continue small and prices firm at 70c lb. for Ceylon in drums. Cans at 72c. Buying has slowed down, but has not altered the firmness of the spot market, apparently. Java oil quiet at 85c@87½c lb.

**Oil Cloves**—Eased off 10c lb. owing to softening of spice position last week. Sellers are asking \$1.80 lb. in cans for outside stocks. Distillers adhere to \$1.90 lb.

**Oil Coriander**—Selling at \$20.00@21.50 spot with reports higher prices for shipment from abroad.

**Oil Eucalyptus**—Demand has increased during the past week. Cases are selling at 46c@48½c lb. spot.

**Oil Geranium**—Bourbon still quoted at \$6.50@6.75 lb. spot. Firm at this level.

**Oil Hemlock**—Lower at \$1.55 from \$1.65 of last week. Spot stocks small.

**Oil Lemon**—Strengthened and quoted higher for shipment. Buying has increased, thereby, helping to stiffen the spot market. Italian in cans quoted 75c@85c lb. spot. American oil also higher at 80c@85c lb. Shipment of 540 cases has arrived from abroad.

**Oil Lemongrass**—Higher at 85c@90c lb. spot.

**Oil Limes**—Distilled selling slightly higher at 65c@70c lb. spot. In a big way still quoted at 60c lb. Expressed at \$1.75@1.85 lb. spot.

**Oil Orange**—Spot prices have moved up sharply on better demand and higher shipment figures. West Indian up to \$2.60@2.75 lb. while Italian is now inside at \$2.80@2.90 lb. American has advanced to \$2.85 lb. Bitter is quoted at \$2.25@2.35 lb. spot.

**Oil Peppermint**—Remains stationary at \$2.75@2.85 lb. for natural and U. S. P. is offered at \$3.00@3.10 lb. spot. Soft with consumers buying in a very limited way.

**Oil Petit Grain**—South American oil slightly higher at \$1.60@1.65 lb.

**Oil Pimento**—Advanced by manufacturers and now selling at \$1.85@1.90 lb. spot.

**Oil Sandalwood**—Again higher on spot. Best for U. S. P. now heard, is \$7.85 lb., while up to \$8.00 is quoted. Demand continues steady.

**Oil Sassafras**—Natural has been advanced to 95c@1.00 lb. spot.

**Oil Wormseed**—Firm at \$4.25 lb. spot. Demand less active. Offered spot at \$6.50@6.75 lb.

#### Aromatic Chemicals

**Benzyl Benzoate**—Demand still remains fair at \$1.50@1.60 lb. for ordinary and \$1.65@1.75 lb. for medicinal FFC.

**Coumarin**—Manufacturers advanced price 50c lb. last week and now quote inside at \$4.50 lb. All resale stocks have been bought up either by consumers or strong holders. Bought in at \$4.15 and \$4.25 with nothing now available under makers' schedule.

**Heliotropin**—American manufacturers and importers still continue to depress the market by keen competition. Domestic in bottles selling at \$1.75@2.00 lb., while imported is \$1.75@2.75 lb.

**Methyl Anthranilate**—Domestic still holds at \$2.25@2.50 lb., while imported is offered over a wide range from \$3.00@3.75 lb.

**Methyl Salicylate**—Market still strong at 55c lb. in drums and 57c lb. in cases from makers. Resale 51c. May move up in sympathy with salicylic acid position.

**Vanillin**—Demand continues slow and competition between makers keen. Named at 41c@41½c lb.



## FOREIGN ORDERS FOR OILS ARE SCARCE

(Special Correspondence to DRUG &amp; CHEMICAL MARKETS)

Catania, Sicily, March 10.—The price of lemon juice fluctuated widely in February. Foreign orders were not very numerous. Price changes in the old and new orange oils were very great; the new product benefiting at the end of the month. Bijter orange oil advanced toward the end of the month, especially the product of the new harvest. Bergamot oil declined until towards the end of the month, when a slight recovery took place.

During the first six months of 1922 Italy imported 17 kilos of lemon, orange and mandarine juice, 15,412 kilos of anis, citronella, eucalyptus, cedar wood, lemongrass, linaloe and thyme essential oils, 453 kilos of clove oil, 825 kilos of peppermint oil, 16 kilos of essence of roses, and 5,036 kilos of other essential oils. The imports of deterpenized essential oils were 2,861 kilos, and the terpenes of essential oils 15 kilos. Exports during the same period were 65,286 kilos of orange juice, 82,501 kilos of bergamot oil, 370,667 kilos of lemon juice, 1,661 kilos of mandarine oil, 682 kilos of lime and other essential oils, 100 kilos of essential oils of anis, citronella, eucalyptus, cedar wood, lemongrass, linaloe and thyme; 1 kilo of oil of cloves, 1,686 kilos of peppermint oil, 2 kilos of oil of roses, 9,559 kilos of other essential oils, 166 kilos of deterpenized essential oils, 129 kilos of terpenes of essential oils, etc.

Quotations for other essential oils were as follows per kilo:—Angelica root, lire, 1,000; angelica seeds, lire 900; anis, lire 40; arnica flowers, lire 3,000; absynth, lire 250; Bay St. Thomas, lire 350; Basilicum, lire 375; Roman chamomiles, lire 2,500; Ceylon cinnamon, lire 350; Ceylon citronella, lire 42.50; Burma citronella, lire 65.50; Ceylon cloves, lire 350; African geranium, lire 400; sandalwood, lire 400; lemongrass, lire 55 to 60; pressed Calabria lime juice, lire 60; Piedmontese peppermint, lire 160 to 180; Italian rose, lire 4,000; French rosemary, lire 25; Italian rosemary, lire 25; mustard seed, lire 300; ylang ylang, lire 500.

Deterpenized essential oils are quoted as follows per kilo:—Bitter orange, lire 3,600; sweet orange, lire 3,750; bergamot oil, lire 350; cedar oil, lire 500; lemongrass, lire 100; lime juice, lire 600; lemon juice, lire 400; peppermint, lire 330.

O. A. Brown & Co., New York essential oil and flavoring material importers, announce that Harold E. Boege has joined the staff of the company. Mr. Boege becomes a member of the firm in the capacity of secretary. He was formerly connected with DRUG & CHEMICAL MARKETS for three years, and prior to that with the Roessler & Hasslacher Chemical Co. The addition of Mr. Boege to the Brown forces marks the first step in a broader expansion policy by the company. They are the American representatives for the Chemical Works Flora of Zurich, Bilar Freres of Paris, and the Holland Distilleries, Ltd., London.

Francois Coty, manufacturer of perfumes and toilet accessories in Paris, France, has obtained a permanent injunction in the Superior Court at Montreal, Canada, against P. E. Bergeron, Montreal, prohibiting him from manufacturing, selling or advertising goods under the name "Coty". The plaintiff complained that Bergeron had injured his business by the use of the Coty label and had imitated brand names well known and accepted as Coty's sole product. The court imposed damages of \$300 against Bergeron.

## SELL AMERICAN TOOTHPASTE IN AFRICA

The annual importation of toilet preparations, including toothpastes, into Portuguese East Africa is over 25,000 kilograms, according to a report to the Department of Commerce from Consul Cecil M. P. Cross at Lourenco Marques. The most important single item says Consul Cross, is toothpaste, of which England is the chief source. The yearly importation exceeds 5,000 kilograms. American toothpastes are on the market and are popular products of American branch factories in England composing a considerable percentage of the imports of toothpaste officially credited to the United Kingdom. Next to toothpaste come talcum powders, with imports from the United Kingdom in the lead and the United States and France sharing the remainder of the trade. Perfumes are third among the imports; among perfumes Eau de Cologne has the premier place. France supplies the bulk of the Eau de Cologne as well as of the other perfumes.

The rest of the 25,000 kilograms of toilet preparation imports consists of lotions, creams, lipsticks, rouges, etc., which come mainly from Great Britain, France and Portugal. The main customers for these articles are Europeans.

Four druggists in Santander, Spain, have been arrested in connection with the discovery of 400 kilograms of opium, 25 pounds of morphine and quantities of cocaine and heroin, alleged to have been destined for America. One of the prisoners, Agustin Diaz Guemer, is said by the police to have confessed that he was working in connection with a man employed by a steamship company.

The annual report of the Canadian Department of Health for the year ending March 31, 1922, shows a marked decrease in the importations of opium and narcotic drugs compared with the previous year. Imports of cocaine were 2,952 oz. against 3,310 oz. in 1921; morphine 8,774 oz. against 12,124 oz.; crude opium 1,700 lbs., against 2,953 lbs.

The Gaver Drug Co. of 701 North Howard street, Baltimore, has obtained a Maryland charter to manufacture and deal in drugs, medicines, and chemicals. The incorporator is Gaither C. Gaver, and the capital stock comprises 250 preferred shares of a par value of \$100, and 40 shares of common stock without par value.

Gomez & Ortiz, wholesale druggists of Zapotoca, St. Vincent, and Santander, Colombia, according to an announcement received from Zapotoca, have formed a new company to replace the former Gomez, Ortiz & Co. Dr. Carlos Gomez Plata and Don Ambrosio Ortiz are the members of the new firm.

A bill introduced in the Assembly of the New York Legislature prohibits the sale of cocaine at retail except upon a physician's prescription. All cocaine must be labeled "Poison" together with the name and place of business of the seller in the case of wholesale sales.

Secretary of State Hughes says he will immediately make diplomatic approaches under the Porter Narcotic law to foreign nations, with the purpose of setting up international machinery for the control of traffic in narcotics.

The Monroe Drug Co., Quincy, Ill., is building a five-story plant, to cost around \$250,000. The concern will have five times the amount of floor space now occupied, when the new works is completed.

## The Consuming Industries

The Kentucky State Highway Commission, Louisville, Ky., has adopted an \$8,000,000 road budget for 1923.

A 5,000 spindle mill will be built and put into operation by January, 1924, at Mexia, Texas. About \$400,000 has been raised.

The United Textile Workers and the Fall River Textile Council have made formal demand for a wage increase of 15 per cent on April 2.

The Plainfield Paper Co., recently organized to take over the Childs Paper Co.'s mill at Childsdales, Mich., will start operations in the near future.

The Crystal Spring Bleaching & Dyeing Co., Thwaites, Mass., reports a credit profit and loss of \$217,074, for the year ended Dec. 31, 1922.

The Alexander Smith & Sons Carpet Co. is building the largest carpet-making plant in the world at Yonkers, to cost \$2,000,000, comprising seven buildings.

The Lowell Dye Works' annual financial statement, filed with the Massachusetts commissioner of corporations, showed assets of approximately \$102,000 as compared with current liabilities of \$24,018, on Jan. 1, 1923.

Receivers in equity were appointed on March 15 to rehabilitate the Chalmers Knitting Co., manufacturers of "Porosknit" underwear, of Amsterdam, N. Y. Liabilities are said to be \$1,000,000, while assets are estimated at \$2,300,000. The business is to be continued.

Alfred B. Hitchins of the Ansco Co., Binghamton, will give an address on "Peculiarities of Photographic Papers" at the Paper Industries Exposition to be held at the Grand Central Palace, New York, week of April 9. At this exposition the Booth Chemical Co., Elizabeth, N. J., will make a display of coagulating processes.

Governmental building and construction work now under way should be slowed down and the initiation of new projects delayed, Secretary Hoover has recommended to President Harding, in order that they may be pushed forward at some later period when there is less private construction activity and need for alleviating or preventing unemployment.

The Rubber Export Association, 1790 Broadway, has filed papers with the Federal Trade Commission under the Export Trade Act (Webb-Pomerene Law) for the export of rubber and rubber goods. Export trade associations formed under this act must engage solely in the export trade. The members of the association are the United States Rubber Export Co., the Goodyear Tire and Rubber Export Co. and the Miller Rubber Export Co.

The Indian jute situation has changed somewhat since early in December, as the 1922-23 crop has now been found to exceed the Indian Department of Agriculture's September estimate of 4,236,828 bales of 400 pounds each, according to a report from Trade Commissioner C. C. Batchelder, Calcutta, received in the Department of Commerce. It is now variously estimated that the crop of 1922 will be somewhere about 5,000,000 to 6,000,000 bales. The normal crop up to three years ago averaged 8,000,000 bales per annum.

W. G. Jackson, president of the Empire China Co., of Los Angeles, Cal., was a recent visitor at San Francisco. Mr. Jackson says that the opening of vast deposits of silicate and other raw materials in the Pacific Coast States will result in the shifting of the pottery and china manufacturing industry to California where cheap fuel and power are now available. Sixty per cent of the table china used in this country is now of domestic manufacture, he said, and this ratio is expected to increase.

Five Cincinnati shoe manufacturing companies will merge under the name of The United States Shoe Manufacturing Co., with capital stock of \$7,000,000. The merging companies are Robert Wise Co., Shiefel Shoe Mfg. Co., Sachs Shoe Mfg. Co., Holters Co. and the Krohn-Krohheimer Co.

Job printers in the textile industry are working over time to meet the demand for highly colored fabrics which are now in vogue.

## New Consuming Companies

Seeger & Gilmore, Inc., Wilmington, Del., \$30,000. To make chemicals. Corporation Trust Co. of America, Wilmington.

Anglo-American Aniline & Chemical Works, Inc., Wilmington, Del., \$450,000. Colonial Charter Co., Wilmington.

Superchemical Co., Wilmington, Del., \$300,000. Corporation Service Co., Wilmington.

American Barber Shops, Wilmington, \$200,000. Corporation Service Co.

Talens & Sou, Inc., Newark, \$50,000. To make paints and varnishes. Hilbrand Talens, W. H. Demarest, W. M. Bosman, 985 Springfield ave.

The Oxicol Corp., New York, \$100,000. To make chemical products. S. J. Bohannon, B. Brehm, T. McErlan; attorneys, Briesen & Schrenk, 50 Church st.

R. & K. Glass Co., Wellsburg, W. Va., \$25,000. To make glass products. W. G. Shields, A. J. Rowing, Wellsburg; H. E. Knightlinger, Beach Bottom, W. Va.

Birmingham Glass Manufacturing Co., 29 South LaSalle st., Chicago, \$250,000. H. C. Bryson, R. T. Robb, E. R. Owen.

Mello-Glo Co., Boston, \$100,000. To make cosmetics, drugs and chemicals. F. H. Pardee, Cambridge; J. P. Carr and John Abbott, Winchester.

Biltmore System, Inc., Boston, \$50,000. To make non-alcoholic beverages. W. A. Kneeland, Winchester; H. E. Fuller, Claire M. Weeks, Winchester.

American Sweets Corp., Wilmington, \$1,500,000. To make candy. Corporation Service Co.

Amasia, New York, \$25,000. To make perfumes. E. K. Sumerwell, S. Rubin; attorney, C. B. Small, 280 Broadway.

Holder Products Corp., Wilmington, Del., \$100,000. To manufacture silver polishes. Colonial Charter Co., Wilmington.

Dorris Silk Hosiery Co., Paterson, N. J., \$100,000. Frank Norris, F. J. Vanvort, William Vanvort, Paterson.

Belton Mills, Summerville, Ga., \$300,000. To make duck and sheeting. J. M. Bellah, S. C. Martin.

Mesquite Textile Mills Co., Mesquite, Tex., \$400,000. S. B. Marshall, J. S. Lawrence. To make cotton goods.

The Rose Toilet Goods Corp., 192 Badger ave., Newark, N. J., \$25,000. To make soaps and toilet articles.

S. C. Phillippino Co., Dover, \$50,000. To make toilet preparations. S. C. and E. S. Phillippino, Maple Shade, N. J.; W. S. Holland, Norristown, Pa.; Capital Trust Co. of Delaware.

Goldberger's Pharmacy, Bronx, \$10,000. W. S. and W. J. Goldberger.

American Drug Co., Drugs, \$1,000,000. E. W. Rothrock, A. R. Myers, Geo. E. Mallory, Tyrone, Pa.

Turpo Chemical and Manufacturing Co., New York, \$250,000.

Fire Zone Lubricating Oil Co., College Point, \$20,000. T. H. Doremus, G. S. Miller, G. V. Gurnsey.

Cramers Supply Laundry, Syracuse, \$50,000. E. D., D. E. and H. S. Cramer.

Windber Products Co., Wilmington, manufacture soft drinks, food products, \$25,000.

## The Foreign Markets

Imports of Drugs and Chemicals, page 759

FOREIGN EXCHANGE		Par Current
Great Britain (pound sterling)	.....	\$4.886 \$4.69%
France (franc)	.....	.193 .062
Italy (lira)	.....	.193 .048
Germany (mark) per hundred	.....	23.80 .065
Czechoslovakia (crown) per hundred	.....	20.30 .030
Poland (mark) per hundred	.....	23.80 .062
Japan (yen)	.....	.499 .483
Spain (peseta)	.....	.193 .154
Holland (guilder)	.....	.402 .394
Belgium (franc)	.....	.198 .054
Switzerland (franc)	.....	.193 .186
Sweden (crown)	.....	.268 .266
Denmark (crown)	.....	.268 .193
Argentina (peso)	.....	.424 .370
Brazil (milreis)	.....	.279 .112
China (Silver dollar—Hongkong)	.....	.789 .556
(Tael—Shanghai, silver)	.....	1.082 .755
(Tael—Peking, silver)	.....	1.156 .797

February was a dull month for heavy chemicals in the English market, according to the monthly report of Sir S. W. Royce & Co., Ltd. Copper sulfate was in good export demand, though home trade was good. Values were unchanged in spite of the strength of copper. Acetate of lime was scarce and high. Acetate of lead was in good demand and higher; red lead, active. Potash was moving better on possible shortage of supply. Arsenic scarce and strong. Caustic soda was in active shipping demand. Famine prices were offered for crystal carbolic acid.

Has some American manufacturer an efficient rat poison which, while deadly to rats, is harmless to human beings? If such a material exists James F. Abbott, Commercial Attache at Tokyo, believes large sales could be made in Japan. The only good rat exterminator sold in Japan has been used for suicide purposes.

The Spanish Government has appointed a commission to investigate the possibilities of establishing a chemical industry in Spain. Sources of raw materials, which could be worked economically, and various chemical firms already established are to be thoroughly investigated and reported on.

### Foreign Trade Opportunities

The Department of Commerce, Washington, D. C., has received the following inquiries for drugs, chemicals and accessories. Reserved addresses may be obtained from the Bureau and its district and cooperative offices. Request for each opportunity should be on a separate sheet and state opportunity number. The Bureau does not furnish credit ratings or assume responsibility as to the standing of foreign inquirers; the usual precautions should be taken in all cases.

5607—Caustic soda, stearine, paraffin wax, rosin and tallow, in large quantities—Bolivia. Purchase. Quotations c.i.f. Arica, Chile or Mollendo, Peru.

5624—Rosin and turpentine—Norway. Agency.

5655—Linseed cakes in parcels of 100 tons—Netherlands. Purchase and agency. Quotations, c.i.f. Rotterdam. Terms, net cash against documents on arrival of steamer.

5670—Drugs, chemicals, patent medicines, surgical instruments, toilet articles and confectionery—Bolivia. Purchase. Quotations, c.i.f. Antofagasta or Arica, Chile. Correspondence Spanish or French.

5671—Amyl alcohol, acetate of lime, carbon black (gas), lamp black and wood alcohol—England. Purchase or agency. Quotations c.i.f. English port.

5672—Turpentine to be used in the manufacture of paints and varnishes—Adriatic Port. Purchase. Quotations, c.i.f. Terms, cash against documents on delivery.

### SHARP ADVANCE IN QUICKSILVER

Higher Prices Announced on Acetic Acid, Potassium Permanganate and Benzoate—The Salicylates, Sulphonah and Antimony Firmer—Easier Market for Cod Liver Oil

(Special Cable to DRUG & CHEMICAL MARKETS)

London, March 21.—Trading in crude drugs and medicinal chemicals is quieter this week. Quicksilver has been advanced £2 on rumors that the Spanish supply has been bought up. Prices are higher for acetic acid, permanganate of potash and the benzoates. The market is firmer for the salicylates, sulphonah and antimony.

An easier market is apparent on cod liver oil, peppermint oil and cloves.

### BAYER CO. LOSES TRADE MARK SUIT

(Special to DRUG & CHEMICAL MARKETS)

Toronto, Canada, March 21.—The action brought by the American Druggists Syndicate, Ltd. of Montreal, in the Exchequer Court to have the word "aspirin" expunged from the Canadian register of trade marks, which has been pending for some time, was decided by Judge Audette at Ottawa on March 12. The Bayer Co. of Windsor, Ont., claimed the word as a trade mark, it having been registered in Canada in 1880 by Farbenfabriken Von Friedrich Bayer & Co., of Leverkusen, Germany. It was assigned by them in 1913 to the Bayer Co., Inc., of New York, which in 1919 assigned it to the Canadian company.

The applicants claimed that "aspirin" was a common noun, the name of a drug and unfitted to be used to distinguish the manufactures of one person from those of another. The judge upheld this contention pointing out that the American patent on the drug had expired and that this left the use of the word free to any one, and ordered that it should be expunged from the register of trade marks, with costs against the Bayer Co.

### FRENCH OLIVE OIL PRICES ARE STEADY

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Marseilles, March 10.—Trading in olive oil is quiet, but prices are steady. Quotations per 100 kilos are:

Francs

Olive oil, Bouches du Rhone	.....	600@620
Var	.....	500@520
Tunisian, extra	.....	500@520
Tunisian, ordinaire	.....	480@490
Algerian, superfine	.....	460@480
Algerian, fine	.....	450@460
Borjas, extra	.....	500@510
Andalusia, extra	.....	475@480
Olive oil, refined extra	.....	485@500
Oil pulp	.....	400@420
Lampautes, Algerian	.....	425@430
Lampautes, Corse	.....	380
Lampautes, Pays	.....	390@400
Ressence de Corse	.....	260@270

Oil for Manufacturing—Peanut, francs 335; copra, francs 305; palm, francs 305; palm white, francs 285; palm, Dahomey, francs 270.



# Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

**CLASSIFICATION**—Prices quoted herein are listed in the following groups: **Chemicals**, including heavy and technical chemicals, fine and medicinal chemicals, aromatic chemicals and isolates, crudes and intermediates from coal-tar, various fine alkaloids, and miscellaneous products; **Crude Drugs, Essential Oils**, including oleoresins; **Fatty Oils**, including Animal, Vegetable and Fish Oils, Greases, Fats, and Tallow; **Tanning and Dye Extracts**, including miscellaneous natural tanning woods, extracts, etc. All groups are arranged in straight alphabetical order.

**Packages**—Prices are for large quantities in original packages of the customary trading units of weight or measure. A container given in connection with a price does not necessarily mean that this is the quantity on which the price is based. Containers named are the original packages most commonly sold in this market.

**QUOTATIONS**—Chemical prices quoted herein are those of American manufacturers unless otherwise specified. Quotations on imported chemicals are so designated. Where resale or "second hand" stock of any chemical product are sufficient to be considered a factor in determining the market, prices for goods in this class will be quoted in addition to makers' prices available, and indicated as such. Chemical prices quoted

herein are for goods spot New York or Metropolitan District, f. o. b. or ex-store, for immediate shipment, unless otherwise specified. Numerous domestic-made heavy or industrial chemical products are sold principally on a basis of f. o. b. works, and are thus quoted in the list herein, each instance of a "works" price, however, being specified as such.

Fatty Oils prices quoted herein are for goods spot New York unless otherwise noted; f. o. b. mills and Coast prices being designated as such. Crude Drugs and Essential Oils are quoted f. o. b. New York (Manhattan with limitations) for immediate shipment. Tanning and Dye Extracts are quoted spot New York unless otherwise noted.

**WEIGHTS AND MEASURES**—All quotations are made on a basis of avoirdupois pounds and ounces, and American gallons. The following equivalents are given for the reference of exporters, importers, and foreign buyers:

1 Imperial Gallon (British)	—1.20 American Gallons
1 American Gallon	— .833 Imperial Gallon
1 American Gallon	—3.79 Liters
1 Liter	— .264 American Gallon
1 American Gallon (Water)	—8.35 Pounds
1 Pound (Avoirdupois)	— .454 Kilograms
1 Kilogram	—2.20 Pounds

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## Chemicals

<b>ACETANILID</b> , tech. 150 lb bbls. D			.27	: .28
100 lb kgs. D			.28	: .30
USP 200 lb bbls. D			.35	: .38
Second Hands D			.34	: .35
Acetic Anhydride, 85% 450 lb drs. D			...	: .38
85%, 107 lb chys. D			...	: .38
92-95% 100 lb chys. D			...	: .41
Acetone, CP 700 lb drs. c/l wks. D			...	: .23
700 lb drs. le/l wks. D			...	: .22 1/4
350 lb drs. le/l wks. D			...	: .22 1/4
Second Hands, spot. D			...	: .26
Acetone Oils, light, bbls. gal			.90	: .95
Heavy, bbls. gal			.90	: .95
Acetophenone, CP 1 lb bot. D			4.00	: 4.25
Acetophenone, 150 lb bbls. D			1.85	: 1.95
Acetyl Chloride, 100 lb chys. D			.85	: .86
ACID, 1, 2, 4, 250 lb bbls. D			...	: .80
Acetic, 28%, 400 lb bbls. c/l			...	: 3.17 1/4
wks. 100 lb D			...	: 3.42 1/4
28%, le/l wks. 100 lb D			...	: 6.35
56%, c/l wks. 100 lb D			...	: 6.60
56%, le/l wks. 100 lb D			...	: 7.94
70%, bbls. c/l wks. 100 lb D			...	: 8.19
70%, le/l wks. 100 lb D			...	: 9.08
80% coml. bbls. c/l wks. 100 lb D			...	: 9.33
80% coml. le/l wks. 100 lb D			...	: 10.30
80% pure bbls. c/l wks. 100 lb D			...	: 10.85
80% pure le/l wks. 100 lb D			10.55	: 10.85
Glacial, bbls. c/l wks. 100 lb D			...	: 12.05
Glacial, le/l wks. 100 lb D			...	: 12.30
Glacial, USP chys wks. 100 lb D			...	: 12.80
Acetylacetic, 220 lb bbls. D			9.05	: 1.00
Second Hands D			...	: .98
Anthranelle, ton lots drs. D			1.00	: 1.10
95-98%, 100 lb drs. D			...	: 1.20
99-100%, 100 lb drs. D			...	: .85
Benzale, tech. 100 lb bbls. D			...	: .80
Tech. ton lots bbls. D			...	: .72
USP, 100 lb bbls. D			...	: .77
Boric, crys. powd. 250 lb bbls. D			11 1/4	: .12
Kaps, 100 lb D			...	: 12 1/4
Bromine's, 250 lb bbls. D			...	: 1.35
Butyric, 60% pure 5 lb bot. D			.50	: .80
Camphoric, USP VIII 1 lb bot. D			5.50	: 5.60
Carbolic, USP crys. see also Phenol			...	: .47
110 lb tins D			...	: .49
25 lb tins D			...	: .51
5 lb tins or bot. D			...	: .56
1 lb bot. D			...	: .55
Liquid, USP 1 lb bot. D			...	: .55
<b>ACID, Carboic</b> —(Continued)			...	...
Crude, 25% 50 gal. bbls. gal			.35	: .36
10%, 50 gal. bbls. gal			.30	: .32
<b>Chloracetic</b>			...	...
mono 100 lb bbls. wks. D			...	: .30
Di, 150 lb chys wks. D			...	: 1.00
Tri, 425 lb bbls. wks. D			...	: 2.45
<b>Chlorosulfonic</b> , 1500 lb drs.			...	...
wks. D			.15	: .16
<b>Chromic</b> , USP 200 lb drums. D			...	: .40
85% Pure, 200 lb drums. D			...	: .35
<b>Chromotropic</b> , 300 lb drums. D			...	: 1.25
<b>Chrysanthemic</b> , see Chrysanthemum			...	...
<b>Cinnamic</b> , 5 lb cans. D			3.00	: 3.25
<b>CITRIC</b> , USP crys 230 lb bbls. D			...	: .49
Powd., USP 200 lb bbls. D			...	: .50
Imported, crys. 112 lb kegs. D			.49	: .49 1/4
Single kegs D			.49 1/4	: .50
<b>Cleves</b> , 250 lb bbls. D			1.05	: 1.10
<b>Cresylic</b> , 95% dark dr. resale. gal			...	...
97-99% straw, drs. wks. gal			...	...
97-99% com., drs. Imp. gal			1.50	: 1.60
97-99% decolor. drs. wks. gal			...	...
<b>Diethylbarbituric</b> , 10 lb lots,			...	...
1 lb bot. D			8.50	: 10.50
<b>Formic</b> , 75% tech. 100 lb chys. D			.16	: .18
90%, 75 lb chys. Incl. D			.16	: .18
<b>Gallic</b> , USP 150 lb bbls. D			.70	: .75
<b>Gamma</b> , 225 lb bbls. wks. D			1.80	: 1.90
Bbls., ton lots wks. D			1.70	: 1.80
<b>Glycerophosphoric</b> , 25% 1 lb b. D			1.65	: 1.70
H. 225 lb bbls. single. D			...	: .85
Bbls. ton lots wks. D			...	: .80
<b>Hydroiodic</b> , 10% USP 5 lb bot. D			.65	: .70
<b>Hydrobromic</b> , 48% coml. 155 lb			...	...
chys. wks. D			.35	: .40
48% coml. 10 chys. wks. D			...	: .40
40% USP 155 lb chys. wks. D			.45	: .46
10%, USP 100 lb chys. wks. D			.11	: .13
<b>Hydrochloric</b> , see also Acid Muriatic			...	...
CP, USP, 110 lb chys. D			.08	: .09
<b>HYDROFLUORIC</b> , 30% 400 lb bbls.			...	...
wks. D			...	: .07
30% 100 lb chys. wks. D			...	: .06
30% 100 lb chys. wks. D			...	: .07
48% single 100 lb chys. wks. D			...	: .11
48% 10 chys. wks. D			...	: .10
52% 100 lb chys. wks. D			...	: .12
52% 10 chys. wks. D			...	: .11
<b>Acid, hydrofluoric</b> —(continued)			...	...
60% 100 lb chys. wks. D			...	: .14
60% 300 lb dr. wks. D			...	: .12
White Acid, 100 lb chys. wks. D			...	: .26
White Acid, 10 chys. wks. D			...	: .25
<b>Hydrofluosilicic</b> , 35% 450 lb bbls.			...	...
wks. D			.10	: .12
<b>Hypophosphorous</b> , USP 30% 5			...	...
gal. demis. D			...	: .95
USP, 10% 5 gal. demis. D			...	: .35
<b>LACTIC</b> , 22% dark 500 lb bbls. D			.04 1/4	: .05
22% light, bbls. D			.05 1/4	: .06
44% dark, bbls. D			.09 1/4	: .10
44% light, bbls. D			.11 1/4	: .12
66% bbls. D			...	: .12
USP IX 100 lb chys. D			.60	: .70
USP VIII 100 lb chys. D			...	: .55
<b>Laurent's</b> , 250 lb bbls. D			.85	: .90
<b>Metanilic</b> , 250 lb bbls. D			.60	: .65
<b>Mixed, sulfuric-nitric</b>			...	...
Drums, wks. D			.07 1/4	: .08
Drums, wks. D			.01	: .01 1/4
Tank cars, wks. D			.07 1/4	: .08
Tank cars wks. D			.009	: .01
<b>Molybdeic</b> , 85% pure 1 lb bot. D			1.75	: 1.85
85% pure, 100 lb kegs. D			...	: 1.30
<b>Monosulfonic F. Delta</b> , 50 lb			...	...
tins D			...	: 2.30
<b>MURIATIC</b> , 20% chys. le/l			...	...
wks. 100 lb D			1.25	: 1.50
Chys. c/l wks. 100 lb D			1.10	: 1.50
Tank cars, wks. 100 lb D			1.00	: 1.10
18%, 120 lb chys.			...	...
c/l wks. 100 lb D			1.00	: 1.10
Tank cars, wks. 100 lb D			.90	: 1.00
22%, 120 lb chys.			...	...
c/l wks. 100 lb D			1.75	: 2.00
<b>Iron, free, 20% chys.</b>			...	...
c/l wks. 100 lb D			...	: 1.35
Tank cars, wks. 100 lb D			20.00	: 20.00
<b>Muriatic</b> , CP & USP, see Acid Hydrochloric			...	...
<b>Naphthionic</b> , tech. 250 lb bbls. D			.60	: .63
<b>Refined</b> , single bbls. D			...	: .85
<b>Neville &amp; Winther's</b> , 250 lb			...	...
bbls. D			1.15	: 1.20



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## Chemicals

<b>ACID, NITRIC, 36° 135B</b>			<b>Acid Sulfuric</b>			<b>ALCOHOL—(continued)</b>		
chys. wks. ....100B	4.75	5.00	Tank cars, wks. ....net ton	9.00	11.00	Butyl, 50 gal. drums. ....B	.20	.33
Chys. c/l wks. ....100B	4.50	4.75	C. P. 175B chys. ....100B	.08	.09	Cinnamic liquid, 1B bot. ....B	10.00	12.00
38° single chys. wks. ....100B	5.50	5.75	Oleum, 20 p.c. 1500B drums,			Crystallizable .....B	12.00	15.00
Chys. c/l wks. ....100B	5.25	5.50	le/l wks. ....100B	1.25	1.50	Isobutyl, crude 50 gal. drums. gal	...	4.40
42° Single chys. wks. ....100B	6.00	6.50	Drums, c/l wks. ....100B	1.10	1.25	Refined, 10B can. ....B	...	.75
Chys. c/l wks. ....100B	5.75	6.00	Tank Cars, wks. ....net ton	17.00	18.00	Isopropyl, crude 50 gal. drs. gal	...	2.25
44° Single chys. wks. ....100B	6.75	7.50	Contract cars, wks. ....ton	17.00	18.00	Refined, 50 gal. drs. ....gal	4.00	4.50
Chys. c/l wks. ....100B	6.50	7.00	Oleum, 40° drs le/l wks. net ton	...	35.00	Ref'd, 91%, drs. ....gal	...	3.50
C. P. chys. single wks. ....100B	...	13.00	Oleum, 60° drs, le/l wks net			Methyl, see Alcohol, Wood		
Oxalic, 325B bbls. wks. ....B	.12½	.12¾	ton	...	65.00	Phenylethyl, see Phenylethylalcohol		
Bbls., NY	...	.13	Sulfurous, USP 6% 100B chys. B	.05	.06	Propyl, nml. crd 50 gal. drms. gal	...	4.40
Keps, 100B	.13	.13¾	4% 100B chys. ....B	.04	.05	Refined, 10B can. ....B	...	.75
Imp., 560B cask. ....B	.13	.13¾	USP, 5 gal. demis. ....B	.06	.08	Denatured		
Phenylacetic, 1B bot. ....B	3.00	4.00	Tannic, tech. 300B bbls. ....B	.40	.50	No. 1 Complete Denat. 188 Proof		
Phosphoric, 50% tech. 100B			USP, powd. 200B bbls. ....B	.70	.75	50 gal. bbls. incl. ....gal	.41	.43
chys. ....B	.08	.09	USP, fluff, 50B bbls. ....B	.75	.80	50 gal. drums, extra. ....gal	.35	.37
USP, 85% syrup, 70B			Tartaric USP cryst 300B bbls. B	...	.32	No. 1 Special Denat. 190 Proof		
demis. ....B	...	.18	USP, powd. 300B bbls. ....B	...	.32	50 gal. bbls. incl. ....gal	.39	.41
Phthalic, see Phthalic Anhydride			Imp. USP, 240B bbls. ....B	.30¾	.31	50 gal. drums, extra. ....gal	.33	.35
Picramic, 300B bbls. ....B	...	.65	Powd. 240B bbls. ....B	.30¾	.31	No. 5 Complete Denat. 188 Proof		
Picric, 450B bbls. ....B	...	.30	Tobias, 250B bbls. ....B	1.30	1.40	50 gal. bbls. incl. ....gal	.38	.40
Bbls. car lots wks. ....B	.20	.23	Tungstic, 100B kgs. ....B	...	1.00	50 gal. drums, extra. ....gal	.32	.34
Pyrogallic, crys. 5B cans. ....B	...	1.20	Acetone Alk. cryst. 1 oz. vis. oz	...	30.00	No. 6 Complete Denat. 188 Proof		
Resublimed, 5B cans. ....B	1.55	1.60	Amorphous, 1 oz. vis. ....oz	...	20.00	50 gal. bbls. incl. ....gal	.38	.41
Tech. powd., 200B bbls. ....B	...	.80	Adeps Lanæ, hydrous 350B bbls B	.21	.23	50 gal. drums, extra. ....gal	.32	.34
Salicylic, tech. 125B bbls. ....B	.42	.47	Anhydrous, 350B bbls. ....B	.23	.24	Albamen, Egg, edible. ....B	...	.88
USP, 100B bbls. ....B	.50	.52	Technical, see Dyers Sundries			ALCOHOL, USP 190 pf. 50 gal.		
Second Hands	.48	.50	bbls. ....gal	...	4.70	bbls. ....gal	...	4.70
Sulfanilic, 250B bbls. ....B	.17	.20	Second Hands, bbls. USP 190			pf. ....gal	...	4.60
SULFURIC, 66° 180B chys.			Export, USP 190 pf. ....gal	.37	.45	Cologne Spirit, 50 gal. bbls. gal	...	4.75
le/l wks. ....100B	1.25	1.50	WOOD, see Methanol			Alcohols, also in 50 gal.		
Chys. c/l wks. ....100B	1.00	1.25	drums, extra and returnable.			drums, extra and returnable.		
1500B Drums, le/l			Amyl, see Oil Fusel					
wks. ....100B	...	1.10						
Drums, c/l wks. ....100B	...	1.00						
Tank cars, wks. ....net ton	14.00	16.00						
60° 1500B Drums,								
le/l wks. ....100B	.70	.80						
Drums, c/l wks. ....100B	.60	.80						

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Ammonium Phosphate  
Phosphoric and Formic Acids

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## Chemicals

Alon, USP 100 lb cases.....	.85	: .90
Alpha-Naphthol, tech. 300 lb bbls.	...	: .65
Refined, 300 lb bbls.....	...	: .75
Alpha-Naphthylamine, 350 lb bbls.	...	: .37
Ton lots, bbls. wks.....	...	: .35
<b>ALUM.</b> Ammonia, lump 400 lb bbls.		
wks. ....	100 lb	3.50 : 3.65
Imp., 500 lb cases.....	100 lb	3.25 : 3.50
Ground, 400 lb bbls. wks.100 lb		3.65 : 3.75
Powd., 380 lb bbls. wks.100 lb		3.90 : 4.00
Chrome, 500 lb cks wks.100 lb		5.00 : 6.00
Potash, lump 400 lb bbls.		
wks. ....	100 lb	4.50
Bbls. c/l wks.....	100 lb	4.25
Cont. bbls c/l wks.....	100 lb	4.25
Imp. 650 lb cases s.p. 100 lb		3.00 : 3.25
Ground, 400 lb bbls. wks.100 lb		4.35 : 4.60
Imp. 650 lb cases.....	100 lb	3.00 : 3.25
Powd., 380 lb bbls. wks.100 lb		4.50 : 4.75
Chrome, 700 lb cks wks.100 lb		5.50 : 6.00
Soda, grd. 400 lb bbls. wks.100 lb		4.00
Bbls. c/l wks.....	100 lb	3.50
Aluminium, metal, c/l NY.....	100 lb	24.50 : 25.00
Chloride, anhyd. 275 lb drs.,		.20 : .23
30% sol. 120 lb cys.....		.03½ : .04
Hydrate, 96% light 90 lb bbls.		.18½ : .20
<b>SULFATE.</b> Iron-free bags c/l		
wks. ....	100 lb	2.50 : 2.65
Imported, spot .....100 lb		2.50 : 2.60
Comm'l., ¾% iron, bgs. c/l		
wks. ....East 100 lb.		1.45 : 1.50

## ALUMINUM SULFATE—(Continued)

Cont. bgs. c/l wks. E. 100 lb	...	: 1.40
Bags, c/l wks. W. 100 lb	...	: 1.35
Bbls., c/l wks. East. 100 lb	...	: 1.60
Bulk, c/l cont. wks. E. 100 lb	...	: 1.35
Amtidol, (see Diaminophenol)		
Amidopyrine, 10 lb boxes.....	4.60	: 5.00
1 lb cartons, 10 lb.....	...	: 5.06
Aminobenzenes, 110 lb kgs.....	...	: 1.15
<b>AMMONIA</b> anhyd. 100 lb cyl.....	...	: .30
Water, 26° 800 lb drs. wks.....	...	: .07½
Drs. c/l wks.....	...	: .07
Imp., 800 lb drs incl spot. lb	...	: .06½
26°, 100 lb cys. lb/1 wks.....	...	: .09½
Cys., c/l wks.....	...	: .09½
20°, 800 lb drs. lb/1 wks.....	...	: .08
Cys., lb/1 wks.....	...	: .07½
18°, 800 lb drs. lb/1 wks.....	...	: .05½
Cys., lb/1 wks.....	...	: .07½
16°, 800 lb drs. lb/1 wks.....	...	: .04
Cys., lb/1 wks.....	...	: .05
Ammonium Acetate, 100 lb kgs.....	.35	: .36
Benzoate, USP 1 lb bot.....	.85	: .90
Bifluoride, 300 lb bbls.....	.22	: .23
100 lb kgs.....	.23	: .24
Bromide, 50 lb boxes.....	...	: .33
Imported, 112 lb boxes.....	.14½	: .15
Carb., tech. 560 lb cases.....	...	: .09½
Powd., tech. 385 lb bbls.....	...	: .09
USP, lump, 100 lb kgs.....	...	: .09½
Powd., 100 lb kgs.....	...	: .08½
Chloride, Domestic		
White gran. 250 lb bbls. NY. lb	...	: .08
Bbls., c/l wks.....	...	: .07½
Gray 250 lb bbls. wks.....	...	: .08½
Bbls., c/l wks.....	...	: .08½

## AMMONIUM CHLORIDE—(Continued)

Imp., wh. 600 lb cases spot. lb	.06½	: .07
Gray, 600 lb cases spot. lb	.08	: .09
Lump, 500 lb cases spot. lb	.14	: .15
Ichthyolate, as to brand.....	.75	: 4.00
Iodide, USP 25 lb jars.....	...	: 5.20
Lactate, 500 lb bbls.....	.15	: .16
Nitrate, tech. crys. 225 lb bbls.	...	: .13½
CP gran. 100 lb kgs.....	.20	: .21
Oxalate, pure, 100 lb kgs.....	.50	: .57
Persulfate, 112 lb cases.....	.55	: .60
Phosphate, dibasic 200 lb bbls.	.54	: .60
Tech., powd. 325 lb bbls.....	.15	: .17
Salicylate, USP 100 lb kgs.....	.68	: .70
Sulfate, bulk c/l wks.....100 lb	...	: 3.50
200 lb single bgs c/l wks.100 lb	...	: 3.60
200 lb double bags f.a.s.100 lb	...	: 3.90
Sulfoeyanide, tech. 100 lb kgs.	...	: .50
CP. 25 lb jars.....	.60	: .65
Amyl Acetate, tech. 50 gal. drs. gal	3.50	: 4.00
Pure, 5 gal. cans.....gal	6.00	: 7.00
Alcohol, see Fusel Oil		
Butyrate, 1 lb bot.....	2.00	: 2.10
Formate, 1 lb bot.....	1.75	: 2.00
Salicylate, 100 lb cys.....	1.45	: 1.60
Anethol, 2 lb bot.....	1.60	: 2.00
<b>ANILINE OIL</b> , 900 lb drs. 5 dr. sp. lb	...	: .17
Aniline Salt, 200 lb bbls.....	.24	: .25
Anisic Aldehyde, 1 lb bot.....	3.40	: 4.00
Anthracene, 40-45% 600 lb cases	...	
wks. ....	.12	: .17
80-85%, 600 lb cases wks.....	.75	: 1.00
Anthraquinone, subl 125 lb bbls.	1.30	: 1.35
80% paste 350 lb bbls.....	.75	: .80
Antimony metal, slate ton lots 100 lb	8.75	: 8.87½
Needle Powd., 100 lb cases.....	.06½	: .07

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Aconitine and Salts  
Amidopyrine  
Antipyrine  
Apomorphine Hydrochloride  
Arecoline Hydrobromide  
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Berberine and Salts  
Brucine and Salts  
Caffeine and Salts  
Cocaine and Salts  
Codeine and Salts  
Colchicine Alkaloid, U. S. P.  
Colchicine Salicylate  
Creosote, U. S. P.  
Creosote Carbonate  
Cumarin  
Diacylmorphine  
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Hyoscyne Hydrobromide  
Hyoscyamine and Salts  
Morphine and Salts  
Phenolphthalein  
Pilocarpine and Salts  
Potassium Guaiacol  
Sulphonate "Alta" Brand  
Salicin  
Saponin Purified  
Scarlet Red Medicinal  
Genuine "Biebrich"  
Silver Proteinate  
Sodium Cacodylate  
Sparteine Sulphate  
Strophanthin  
Strychnine and Salts  
Theobromine and Salts  
Veratrine and Salts  
Yohimbin Hydrochloride

THE HOFFMANN-LA ROCHE CHEMICAL WORKS NEW YORK

## Chemicals

<b>ANTIMONY CHLORIDE, anhyd 1000b</b>			<b>Bay Rum, Porto Ricana, genuine</b>			<b>Beta-Naphthylamine, tech. 200b.</b>		
drs. ....	b	.35	Denat. salicy acid or tartar emetic			bbis. ....	b	.90
50b crocks ....	b	.45	45 gal. bbis. ....	gal	3.10	Sublimed, 200b bbis. ....	b	1.50
Sol'n. 130b carboys ....	b	.12	Denat. quinine sulf. 45 gal.			<b>Bichloride Mercury, see Mercury Bichloride</b>		
Oxide, 500b bbis. ....	b	.06 1/4	bbis. ....	gal	3.40	<b>BISMUTH metal, 150b cases. ....</b>	b	2.75
Salt, dom. 500b bbis. ....	b	.24	Domestic synthetic, 50 gal.			Second Hands ....	b	2.60
Imp. NY ....	b	.23	bbis. ....	gal	1.25	Ammon. Citrate, USP 5b bxs. ....	b	5.60
Sulfide, golden 500b bbis. ....	b	.19	Benzaldehyde, tech. 945b drs.			Betanaphtholate, 5b bxs. ....	b	3.20
336b kegs ....	b	.17	wks. ....	b	.65	Citrate, USP 5b bxs. ....	b	3.00
Crimson, 500b bbis. ....	b	.38	USP, 25b cans. ....	b	1.40	Nitrate, 25b jars. ....	b	1.85
336b kegs ....	b	.36	FFC, 25b cans. ....	b	1.60	Oxychloride, 250 bbis. ....	b	3.35
Red, 500b bbis. ....	b	.43	<b>BENZENE, 90% 8000 gal. tanks</b>			Phenolsulfonate, 5b cans. ....	b	3.05
336b kegs ....	b	.40	wks. ....	gal	.27	Salicylate, 250 bbis. ....	b	1.95
Tartrolactate, 500b bbis. ....	b	.45	110 gal. drs. wks. ....	gal	.32	Subcarbonate, USP, 250 bbis. ....	b	3.25
Antipyrine, USP, 100b cases. ....	b	2.75	<b>CP Tanks, wks. ....</b>	gal	.30	Subcarbonate, USP 250 bbis. ....	b	3.25
Apomorphine Hydrochloride, 1/2 oz. vis. oz.		16.65	110 gal. drs. wks. ....	gal	.35	X-Ray diag. 1b bot. ....	b	3.60
Arecoline Hytromide, 1 oz. vial. oz.		8.00	10 bbl. lots. ....	b	.84	Subgallate, USP 175 bbis. ....	b	2.65
Argols, red powd. 350b bbis. ....	b	.07	<b>Benzidine Base, dry 250b bbis. ....</b>	b	.86	Sublimate, 5b lots. ....	b	4.55
Arsenic, metal 220b kegs. ....	b	.23	<b>Benzidine Sulfate, paste 350b</b>			Subnitrate, USP, 250 bbis. ....	b	2.75
Red, 224b kegs cases. ....	b	.14 1/4	bbis. ....	b	.70	Second Hands, bbis. or less. ....	b	2.55
White, 550b bbis. c/l NY. ....	b	.15 1/4	<b>Benzol, see Benzene</b>			Cones, 1b bot. ....	b	3.75
<b>Aspirin, see Acid Acetylsalicylic</b>			Benzonaphthol, 5b boxes. ....	b	2.00	Subsalicylate, USP, 175 bbis. ....	b	3.05
Atropine Alk. USP 1 oz. vial. ....	oz	10.50	<b>Benzoyl Chloride, 500b drs. ....</b>	b	2.10	Tannate 1b bot. ....	b	2.58
Sulfate, 5 oz. in 1 oz. vials. ....	oz	3.00	Benzyl Acetate, 100b chys. ....	b	1.25	<b>Bismuth Preparations quoted</b>		
Single ounce ....	oz	3.10	Alcohol, 5b bot. ....	b	1.50	above on basis 25b lots.		
<b>BARIUM DIOXIDE, see Barium dioxide</b>			Benzoate, 5b bot. ....	b	1.50	Smaller lots at an advance.		
Carbonate, precip. 800b bbis.			Medicinal FFC ....	b	1.60	<b>Blanc Fixe, dry 400b bbis. wks. ton</b>	ton	80.00
wks. ....	ton	75.00	Chloride, 95% tech. 925b drs. ....	b	.25	Imported, bbis. ....	ton	...
Imports, bbis. spot. ....	ton	70.00	100b chys. ....	b	.30	Paste, 650b bbis. ....	ton	40.00
Precip., 200b bgs. wks. ....	ton	76.00	Redistill. 100b chys. ....	b	.35	<b>BLEACHING POWDER, 700b drs.</b>		
Chloride, 800b bbis. wks. ....	ton	90.00	Formate, 1b bot. ....	b	2.50	c/l wks. ....	100b	2.15
200b bgs. wks. ....	ton	90.00	Berberine Hydrochloride, 1b bot. ....	b	22.00	Drums lc/l ex-warehouse. ....	100b	2.40
Imports, bbis. spot. ....	ton	90.00	Sulfate, acid or neut. 1b bot. ....	b	22.00	Contract, c/l wks. ....	100b	1.90
Dioxide, 88% 690b drs. ....	b	.17	<b>BETA-NAPHTHOL, 350b bbis. wks. ....</b>	b	.26	F. a. s. c/l. ....	100b	2.00
Imports, 83-85% 400b drs. ....	b	.14	Ton lots, wks. ....	b	.23	Imported, spot. ....	100b	2.15
Hydrate, 500b bbis. ....	b	.05 1/4	Sublimed ....	b	.55	<b>Blue Ointment, see Mercury</b>		
Iodide, 5b box. ....	b	5.15				Mass, see Mercury		
Nitrate, 700b cases. ....	b	.09 1/4				Bone Ash, 100b kegs. ....	b	.08
Imports, cases. ....	b	.07 1/4				Black, 200b bbis. ....	b	.08
Sulfocyanide 400b bbis. ....	b	.35						
Barytes, heated 350b bbis. ....	ton	33.50						



**Soda Ash**  
**Caustic Soda**  
**Bicarbonate of Soda**

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**MICHIGAN ALKALI COMPANY**

Sole Selling Agents  
**EDWARD HILL'S SON & CO.**  
 21 EAST 40TH STREET, NEW YORK



## Chemicals

Borax, USP, cryst. 400 lb bbls..D	.05¼ : .05½	CALCIUM CHLORIDE—(Continued)		Carbon Tetrachloride, 1400 lb dra.	
Powdered, U.S.P. 300 lb bbls..D	.05½ : .05¾	Flake 330 lb dra. c/l dra. fob		NY	.. : .10%
Kegs, USP, 100-150 lb.....D	.05¾ : .06	NY	... : 30.50	Drums, c/l NY	.. : .09%
Bordeaux Mixture, powd. bbls..D	.12 : .15	Imp., sold 600 lb dra. spot, ton	... : 30.50	700 lb dra. single NY	.. : .10%
Paste, bbls.	.08 : .10	Anhyd., 350 lb dra. fob NY, D	.12 : .13	Carmine, No 40 5 lb boxes	.. : 4.50 : 4.60
Borneol, 1 lb bot.	... : 3.50	Glycerophosphate, 250 lb bbls..D	1.55 : 1.60	Casein, edib. 100 lb keg	.. : .45 : .50
Bromide, see potass. bromide, etc.		Hydrate, (see Lime)		Technical, 200 lb bbls.	.. : .28 : .30
Bromine, bot. in 60 lb cs. wks..D	... : .29	Iodide, 5 lb bot.	... : 4.35	Castoreum, 1 lb boxes	.. : 4.00 : 4.50
Bromobenzene, 600 lb drums...D	.40 : .42	Lactate, tech. 500 lb bbls..D	... : .12½	Castor Oil, USP 50 gal. bbl....D	... : .13
Bromoform, USP 5 lb bot 50 lb cs..D	... : 1.30	Nitrate, 220 lb bbls. c/l NY, ton	... : 40.00	Cases, 80 lb 2 tins	... : .14
Bromstrol, 25 lb kegs.....D	4.00 : 4.25	Phosphate, precip. 350 lb bbls..D	.10 : .12	Tech., see Fixed Oils	
Brucine Sulfate, 100 ozs.....oz	... : .20	Phosphate, precip. tribasic 350		Caustic Potash, see potash, caustic	
Butter of Antimony, see Antimony Chloride		D bbls	.12 : .13	Soda, see soda, caustic	
CADMIUM, metal 100 lb bbs....D	1.15 : 1.25	Phosphate, mono.	.08½ : .07¾	Cerium Oxalate, USP 100 lb kgs..D	.48 : .53
Bromide, 50 lb cases jars....D	... : 1.10	Sulfocarbonate, 100 lb kegs....D	.58 : .60	Chalk, drop 175 lb bbls.....D	... : .03¼
Iodide, 10 lb bot.	... : 4.45	Calomel, see Mercury		Precip. light 175 lb bbls.....D	.04¼ : .04½
Sulfide, cs.	1.50 : 1.60	CAMPBOR, Amer. ref. 250 lb		Precip. heavy 560 lb cals....D	.03½ : .04
CAFFEINE ALK. USP 5 lb cans..D	3.75 : 4.25	bbls.	... : .96	Bulk	5.00 : 8.00
Second Hands	... : 3.75	2¼ lb slabs, 100 lb cs....D	... : .97	Precip. English, 7 lb bags....D	.08¾ : .08½
Hydrochloride, 1 lb bot.....D	7.12 : 7.22	1 lb cakes, 100 lb cs....D	... : .97½	Charcoal, Bone, see bone black	
Sulfate, 1 lb bot.....D	... : 5.50	1 oz. tab., 1 lb ctus.	... : 1.01¼	Wood, powd. 100 lb bbl....D	.04 : .05
Citrate, 25 lb cans.....D	3.00 : 3.25	½ oz. tab., 1 lb ctus.	... : 1.02	Willow, powd. 100 lb bbl....D	.06 : .07
Hydrobromide, 1 lb bot.....D	... : 4.75	100 lb cs.	... : 1.02	China Clay, imp.	16.00 : 22.50
CALCIUM Acetate, 150 lb bps, c/l		Jap. ref. 2½ lb slabs, 100 lb	.90 : .92	Domestic, fob Mine	15.00 : 17.50
wks.	... : 3.50	cs.	... : .92	Chloral Hydrate, USP 100 lb dra..D	.75 : .80
Arsenate, 100 lb bbls. c/l wks..D	.17 : .19	1 oz. tab., 100 lb cs. 1 lb	... : 1.00	25 lb jars	.76 : .81
Bbls. lc/l wks.....D	.18 : .21	½ oz. tab. 100 lb cs. 1 lb	... : 1.02	Chinoidin, 170 lb cases	.65 : .75
Bromide, 100 lb cs.....D	... : .45	tins	... : 1.02	Chloramine-T, 5 lb bot.....D	1.25 : 2.50
Calcium Carbide, 220 lb dra c/l wks D	... : .04¾	Chinese ref. 2¼ lb slabs 100 lb	... : .90	Chlorocane, 5 lb bot.....D	.55 : .75
Drums lc/l wks.....D	... : .05	cs.	... : .72 : .73	Chlorhydrin, Ethylene anhyd, 600 lb	
Carbonate, tech. 100 lb bags		Crude, 100 lb cs.....D	.72 : .73	dra.	.75 : .85
c/l	1.00 : 1.10	Campbor, Monobrom. 100 lb cs..D	1.90 : 1.95	40% soln. 100 lb clys....D	.25 : .30
USP, precip. 175 lb bbls..D	... : .04	Caramel, 50 gal. bbls.....gal	.57½ : .62	CHLORINE, Liquid 3000 lb cyl	
Chloride, solid, 650 lb dra. c/l		Carbazol, 250 lb bbls.....D	.75 : .80	c/l wks.	.05¼ : .05½
f o b NY	... : 24.50	Carbon Bisulfide, boum ar, lc/INYD	... : .08½	Tank car lots wks.	.05¼ : .05½
Gran., 350 lb dra. c/l f o b		c/l drums, NY	... : .05%	100 lb cyl c/l wks	... : .06
NY	... : 30.50	Carbon Black, 12¼ lb bags, 150-		100 lb cyl lc/l, ex-warehouse..D	.06¼ : .07
		225 lb cases	.18 : .35	Chlorobenzene, mona. 1000 lb dra	... : .09
				wks.	.10 : .11
				Dra. c/l wks.	... : .09
				Tank car lots wks.	... : .08
				CHLOROFORM, USP 50 lb dra..D	... : .35
				Second Hands, 650 lb dra....D	.32 : .34
				Technical, 650 lb drums.....D	.33 : .35



### ACETIC ANHYDRIDE

92-95%

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### ACID PHOSPHORIC 50%

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## Chemicals

Chromium Acetate, 20° soln. 400 lb bbls. ....	.08	: .19	COD LIVER OIL, Norwegian, 30 gal. bbls. ....	21.75	: 23.00	Cyanamide, bulk c/l wks. Amm. unit ...	: 3.25
Fluoride, Powd. 400 lb bbls. ....	...	: .50	Newfoundland, 30 gal. bbls. bbl. ....	...	: ...	DIAMINOPHENOL, 100 lb kgs. ....	: 3.80
Soln. 400 lb bbls. ....	...	: ...	Colchicine alk., USP 1 oz. vial. ....	...	: 30.00	Dianisidine, 100 lb kgs. ....	4.10 : 4.20
Sulfate, 400 lb bbls. ....	.07	: .09	Salicylate, 1 oz. vial. ....	...	: 45.00	Dichlorobenzene, 1000 lb drs. ....	.08 : .07 1/2
Chrysarobin, USP 5 lb cans. ....	2.00	: 3.00	Colloidon, USP 30 lb drums. ....	.32	: .23	Diethylaniline, 850 lb drs. ....	.60 : .65
Cinchonidine alk., pvd. 100 oz. tins. ....	...	: .70	Flexible, USP 30 lb drums. ....	.27	: .28	Diethyl Phthalate, 25 lb cans. ....	.65 : .75
Crystal. ....	...	: .75	COPPER, metal electrolytic c/l NY. ....	17.25	: 17.37 1/2	Diethyl Sulfate tech. 50 gal. drs. ....	.20 : .25
Sulfate, 100 oz. tins. ....	.49 1/2	: .50	Lake, c/l NY. ....	17.37 1/2	: 17.50	CP drums. ....	.40 : .50
Cinchonine, alk., pvd. 100 oz. tins. ....	...	: .38	Casting, c/l NY. ....	16.62 1/2	: 16.75	Digitalin, Pure, 1 oz. vial. ....	7.75 : 8.25
Crystal. ....	...	: .43	Carbonate, 400 lb bbls. ....	.19	: .19 1/2	Dimethylaniline, 840 lb drs. wks. ....	.43 : .44
Sulfate, 100 oz. tins. ....	...	: .35	Cyanide, 100 lb drs. ....	.58	: .60	Dimethylsulfate, 100 lb drs. ....	... : .50
Cinnamic Alcohol, see Alcohol Cinnamic	...	: ...	Iodide, 5 lb bot. ....	...	: 5.65	Dinitrobenzene, 400 lb bbls. ....	.19 1/2 : .20
Cinnamic Aldehyde, 1 lb bot. ....	3.20	: 3.50	Oxide, 1000 lb bbls. ton lots. ....	.18	: .19	Dinitrochlorobenzene, 400 lb bbls. ....	.19 1/2 : .20
Citral, 25 lb cans. ....	2.75	: 3.00	Sub-Acetate, verd. 440 lb bbls. ....	.35	: .37	Dinitronaphthalene, 350 lb bbls. ....	.30 : .32
Citrus Ointment, see Mercury	...	: ...	SULFATE, crys. 450 lb bbls. 12/1 spot. ....	6.65	: 6.90	Dinitrophenol, 350 lb bbls. ....	... : .40
Citronellal, 1 lb bot. ....	2.00	: 2.25	Carlots, bbls. f.o.b. NY. 100 lb. ....	6.40	: 6.50	Dinitrotoluene, 300 lb bbls. ....	.19 : .21
Citronellol, 1 lb bot. ....	8.00	: 14.00	Imp. 550 lb cks. ....	5.75	: 6.00	Dionin, see Morphine, Ethyl	...
Cobalt metal, 100 lb kgs. ....	2.75	: 2.85	Powdered, 350 lb 5 bbls. ....	...	: .08 1/2	Diphenylamine, 250 lb bbls. ....	.48 : .50
Cobalt Oxide, 500 lb bbls. ....	...	: 2.10	Copperas, bulk c/l wks. ....	20.00	: 21.00	Diphenylsulfate, 500 lb drums. ....	.85 : .90
10 lb tins 200 lb cans. ....	...	: 2.35	400 lb bbls. c/l wks. ....	...	: 25.00	Dover's Powder, USP 5 lb tins. ....	2.30 : 2.30
COCAINE alk., USP, 1 oz. vial. ....	...	: 11.00	200 lb bgs. c/l wks. ....	...	: 23.00	Duboisine Sulfate, 1 oz. vial. ....	... : 60.00
Hydrochloride, USP-1 oz. vials. ....	...	: 7.07	Powdered, bbls. ....	3.45	: 3.75	EARTH, Diatomaceous, see Kieselguhr	...
In 1/4 oz. vials. ....	...	: 7.50	Corn Syrup, 43 deg. 50 gal. bbls. ....	2.77	: 3.02	Emetine, alk., 15 gr. vials. ....	... : 1.65
In crystals, granular, powder, or flaky crystals as desired.	...	: ...	43 deg. 50 gal. bbls. ....	2.82	: 3.07	Hydchlide, USP 1 oz. vial. ....	... : 19.00
Cocoa Butter, bulk, 200 lb bales. ....	.30 1/2	: .32	Corrosive Sublimates, see Mercury Nichechloride	...	: ...	15 gr. vials. ....	.75 : .80
Fingers, cakes, etc. 12 lb bxs. ....	.36 1/2	: .37 1/2	Cotton Soluble, 100 lb bbls. wet. ....	.40	: .43	EPSON SALT, tech. 300 lb bbls. NY. ....	... : 2.25
CODEIN alk., 5 oz. cans 10 oz. lots. ....	...	: 7.30	Coumarin, 25 lb tins. ....	4.50	: 4.75	Bbls. c/l NY. ....	... : 2.10
Hydrobromide, 10 oz. ....	...	: 5.85	Second Hands. ....	...	: ...	100 lb bgs. c/l NY. ....	... : 1.85
Hydrochloride, 10 oz. ....	...	: 6.55	CREAM TARTAR, USP 300 lb bbls. ....	...	: .26 1/2	Imp., 220 lb bgs. c/l NY. ....	1.10 : 1.25
Nitrate, 10 oz. ....	...	: 6.55	Imp. powd. USP, 224 bbls. ....	.24	: .25	USP, 300 lb bbls. 10 bbls. 100 lb. ....	2.75 : 2.90
Phosphate, 10 oz. ....	...	: 5.50	Creosote, USP, 42 lb cys. ....	.40	: .45	Carlots, bbls. ....	2.35 : 2.50
Salicylate, 10 oz. ....	...	: 5.50	Creosote Oil, 50 gal. drs. ....	.20	: .23	Imported, 300 lb bbls. ....	2.25 : 2.60
Sulfate, 10 oz. ....	...	: 5.85	Carbonate, 1 lb bot. 25 lb. ....	1.60	: 1.75	Ergotin, Bonjean, 1 lb jars. ....	9.50 : 10.00
Small Sizes, 1/4 oz. vials, 50c extra, 1/2 oz. 25c extra, singles 1/2 extra per oz.—25 oz. lots, 10c. cheaper than above. Less than 10 oz. 15c. extra higher than above.	...	: ...	Creosol, USP, 400 lb bbls. ....	.25	: .27	Esurine alk., 1 oz. vial. ....	... : 80.00
	...	: ...		...	: ...	Salicylate, USP 1 oz. vial. ....	... : 20.00
	...	: ...		...	: ...	Sulfate, USP VIII, 1 oz. vial. ....	... : 15.00

FORMALDEHYDE

MECCO

The Miner Edgar Company  
 Rail and Water Facilities  
 110 William Street  
 New York

## Chemicals

ETHER, USP 55 lb drums.....	.13	: .15	Fluorspar, 95% 220 lb bgs. ex dock.....	ton	... : 25.00	GLYCERIN, C. P. 550 lb drums. lb	... : .18 1/4
Anaesthesia, 55 lb drums.....	...	: .18	98% bgs. ....	ton	... : 33.50	Cans, 50 lb.....	lb ... : .20
USP, 1880 55 lb drums.....	...	: .38	98% bgs. ....	ton	... : 35.00	Dynamite, 1000 lb drs.....	lb ... : .17
Washed, 55 lb drums.....	...	: .30	FORMALDEHYDE, USP 400 lb bbls. c/l wks. ....	lb	... : .16	Saponification, tanks.....	lb ... : .13 1/4
Motor, 1 lb cans.....	.26	: .27	Carboys, 100 lb lc/l wks.....	lb	... : .16 1/4	Soap, Lye, tanks.....	lb ... : .11 1/2
Ether, Nitrous, 1 lb bot.....	.92	: .95	Bbls. 400 lb lc/l wks.....	lb	... : .16 1/4	Goa Powder, see chrysarobin	
Ethyl Benzyl Aniline, 300 lb drs. lb	...	: 1.30	Second Hands.....	lb	... : .14 1/2	Graphite, crude 220 lb bags.....	ton 15.00 : 35.00
Ethyl Acetate, 99% 50 gal. dr. gal	.95	: 1.05	Fuller's Earth, 200 lb bgs. c/l mines.....	ton	15.00 : 17.00	Flake, 500 lb bbls.....	lb .06 : .10
85-90% Ester, 50 gal. dr. gal	...	: .85	Imported, 230 lb bags NY.....	ton	35.00 : 40.00	Ground, lump, bbls.....	lb .04 : .05
Carlots, drums.....	...	: .82	Fusel Oil, refined, 100 gal dr. gal	...	3.00 : 3.50	Gualacol liquid, USP 25 lb cans. lb	2.50 : 2.60
Tank Cars.....	...	: .70	Crude, 100 gal dr. gal	...	...	Benzonate, 1 lb bot.....	lb ... : 18.00
Pure, 5 lb bot.....	3.25	: 3.50	G. SALT, paste 350 lb bbls. basis 100%.....	lb	.60 : .65	Carbonate, 5 lb boxes.....	lb 4.25 : 4.50
Benzonate, 5 lb bot.....	1.85	: 2.00	Gelatin, USP silver bbl. 100 lb cs. lb	...	.85 : .90	HAARLEM OIL, Dom. 6 gr. cs. gross	...
Bromide 115 lb drs.....	...	: .40	Gold Label, 100 lb cans.....	lb	...	Imported, 5 gr. cases.....	gross 5.20 : 5.25
Butyrate, 5 lb bot.....	2.00	: 2.25	Technical, 100 lb cs.....	lb	.60 : .65	Halazone, 5 lb bot.....	lb 2.75 : 3.25
Chloride, 15 lb cyl.....	...	: .35	Geraniol, 50 lb cans.....	lb	2.75 : 3.00	Heliotropin, 10 lb bot.....	lb 1.75 : 2.75
Cinnamate, 1 lb bot.....	4.50	: 5.00	Geranyl Acetate, 1 lb bot.....	lb	4.25 : 4.75	Hexamethylenetetramine, USP 100 lb drums.....	lb .95 : .97 1/4
Formate, 5 lb bot.....	.95	: 1.00	GLAUBER'S SALT, tech. 200 lb bags c/l wks. ....	100 lb	1.10 : 1.25	Imported.....	lb .75 : .80
Methyl Ketone, 50 gal. drums. lb	.21	: .21 1/4	350 lb bbls. c/l wks.....	100 lb	1.25 : 1.40	Rubber Makers, Impalp. Pd. drs.....	lb ... : .95
Morphine, see Morphine, Ethyl Valerate, 5 lb bot.....	4.50	: 4.75	Bbls. lc/l wks.....	100 lb	1.50 : 1.75	Homatropine Hydrobrom. USP 1 oz. vial.....	oz ... : 16.00
Ethylene Bromide, 600 lb drs.....	...	: .60	Imported, bbls. spot.....	lb	1.00 : 1.10	Five ozs., 1 oz. vials.....	oz ... : 15.00
Glycol.....	.65	: 1.00	USP, 300 lb bbls. Imp. sp. 100 lb	...	1.25 : 1.75	Hydrastine Alk., USP, 1 oz. vial. oz	... : 20.00
Chlorhydrin, anhyd. 50 gal drs. lb	.75	: .85	USP, 300 lb bbls. dem. sp. 100 lb	...	1.75 : 1.80	Hydchlde, USP, 1 oz: vial.....	oz ... : 20.00
40% Solution, 50 gal. bbls. lb	.25	: .30	USP, 300 lb bbls. c/l wks. 100 lb	...	1.40 : 1.40	Sulfate, 1 oz. vial.....	oz ... : 22.00
Dichloride, 50 gal. drs.....	.20	: .25	Glucose, (Grape Sugar) dry, 100 bags, c/l NY.....	100 lb	3.09 : 3.19	Hydrastinine Hydchlde, USP 15 gr. vials.....	vial ... : 2.40
Eucalyptol, 25 lb cans.....	.80	: .85	Syrup, Drs. & bbls, c/l NY 100 lb	...	2.77 : 3.02	Hydranobenzene, 100 lb bags.....	lb 1.30 : 1.35
Eugenol, 25 lb cans.....	2.85	: 3.25	lc/l NY.....	100 lb	3.12 : 3.12	HYDROGEN PEROXIDE, 35 vol. 400 lb bbls.....	lb ... : .10
Feldspar, bulk.....	20.00	: 25.00	GLUE, pure white, bbls.....	lb	.30 : .35	USP Soln. 375 lb bbls.....	lb .05 : .05 1/4
FERRIC CHLORIDE, tech. crys. 475 lb bbls.....	...	: .10	Medium white, bbls.....	lb	.25 : .30	USP bot. 4 oz. cases.....	gross 8.00 : 8.25
Imported.....	...	: .07	French, bbls.....	lb	.18 : .25	Bot. 8 oz. cases.....	gross 11.75 : 12.00
USP, crys. 100 lb kgs.....	...	: .10	High Grade, bbls.....	lb	.35 : .40	Bot. 16 oz. cases.....	gross 19.75 : 20.00
Imported.....	...	: .09	Bone, regular, bbls.....	lb	.10 : .12	Hydroquinone, 100 lb kgs.....	lb 1.05 : 1.20
Tech. Sol'n 40° 140 lb chys. lb	...	: .08 1/4	Fish, bbls.....	gal	1.50 : 1.75	Hyocine Hydrobrom. USP 1 oz. vial.....	oz ... : 21.00
48° 140 lb chys. lb	...	: .08				Five ozs., 1 oz. vials.....	oz ... : 20.50
USP Sol'n 125 lb chys. lb	...	: .06 1/4					
Ferrous Chloride, crys. tech. 475 lb bbls.....	.06	: .06 1/4					
Ferrous Sulfide, 1000 lb bbls. 100 lb	2.50	: 3.00					
Flake White, see lead, white							

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41st Year



Hyosamine Alk. Cryst., 1 oz. vial. ....	35.00	LANOLIN, see <i>Adipeo Lanas</i>		Litharge, see <i>lead oxide</i>			
Alkaloid, Amorphous, 1 oz. vial. ....	75.00	LEAD, metal, c/1 NY.....100lb	8.25	1.85	Lithium Carb. USP 100lb kgs.....	1.50	1.60
Hydrobromide, USP 1 oz. vial. ....	60.00	Acetate, white crystals 500lb			Bromide, 100lb cs.....	1.70	1.80
Sulfate, 1 oz. vial.....	35.00	bbis. wks.....			Citrate, USP 100lb kgs.....	1.60	1.70
INDOL, C. P. 1 oz. bot.....	8.50	100 to 250lb kgs. wks.....			Iodide, 5lb bot.....		5.40
Iodides, see <i>Potass. Iodids</i> , etc.		White, broken, bbis. wks.100lb			Lithopone, 400lb bbis. 1c/1 wks.....	.07%	.08
IODINE, crude, 200lb kgs.....	3.00	White, gran., bbis., wks.100lb			Bbis. c/1 wks.....		.07
Resublimed, 10lb jars.....	4.55	White, powd., bbis. wks.....			Imported, bbis. ....	.05%	.08%
Tincture, USP 50 gal. bbis., gal	4.60	Keps., wks.....			Litmus Cubes .....	.90	1.00
Carboys .....	4.75	Brown, broken, bbis. wks.....			MAGNESIA, crude .....		15.00
Iodoform, powd. 10lb bot.....	6.00	USP, 100lb kgs.....			Calcinced, 500lb bbis.....		55.00
Crystals, 10lb bot.....	7.00	Arsenate, 100lb bbls. 1c/1 wks.....	.25	.26	Magnesium mtl., sticks 100lb cs.....	1.40	1.50
Ionone, (violet) 1lb bot.....	5.00	Bbis. c/1 wks.....	.21	.24	Carb. tech. 70lb bags NY.....	.07%	.08
Iridium, metal 10oz lots.....	250.00	Paste, 600lb bbis.....	.12	.13	75lb bbis. NY.....	.08%	.09
Iron, metal by hydrogen 1 lb bot. lb	.65	Iodide, USP VIII 5lb bot.....	3.20	3.40	USP, 60lb bbis.....	.10	.11
IRON & AMM. CITRATE, USP 25lb		Nitrate, 500lb bbis. wks.....		.22	USP, blocks 100lb cs. 1, 2, 4		.23
cans.....	.84	Oxide, lithge, 500lb bbis.....	10.90	11.15	cons.....	.19	.23
Green scales, 25lb cans.....	.84	100lb kgs, wks.....		.14%	Chloride, fused 575lb drs. c/1		
Cacodylate, 10lb bot.....	9.00	Oxide, red 500lb bbis. wks.....	11.40	11.65	wks.....		32.00
Citrate, USP VIII 25lb cans.....	.99	100lb kgs wks.....		.14%	Flaked, 350lb drs. wks.....		34.00
Chloride, see <i>ferric or ferrous</i>		Peroxide, 100lb drs.....		.28	Imp., fused 900lb bbis. NY.ton	26.00	28.00
Hypophosphite, 5lb cans.....	1.50	White, basic carb. 500lb bbla			Fusosilicate, crystal 500lb bbis.		
Syrup, USP VIII.....	.30	bbis. c/1 wks.....	.09%	.10	wks.....		.15
Iodide, 1lb bot.....	4.20	Bbis. c/1 wks.....	.09%	.09%	30% soln., 500lb bbis. wks.....	.07	.07%
Syrup, USP 5lb bot.....	.35	100lb kgs wks.....		.14%	Soln. bbis. c/1 wks.....		.06
Nitrate, kgs.....	.09	White, sulfate 500lb bbis. wks.....	.09%	.09%	Glycerophosphate, 5lb tins.....		3.35
Com'l, bbis.....	2.75	Bbis. c/1 wks.....		9.25	Hypophosphite, 5lb cans.....		1.15
Oxalate, scales 25lb cans.....	.80	Licorice Ext. Mass, cases.....	.25	.26	Oxide, USP light 100lb bbis.....		.45
& Ammon. Oxalate, 25lb bbs.....	.45	Compound powder, bbls.....	.11	.13	USP, heavy 250lb bbis.....		.50
& Potassium Oxalate, 25lb bbs.....	.47	Powdered .....	.38	.40	Peroxide, 5lb cans.....		2.15
& Sodium Oxalate, 25lb bbs.....	.40	Sticks, 1 oz. 100lb cans.....	.45	.50	Perborate, 1lb tins.....		2.25
Phosphate, USP 25lb cans.....	.89	LIME (Salts, see <i>Calcium Salts</i> )			Saltzylate, 100lb kgs.....	.67	.70
Pyrophosphate, USP 25lb		Live, 25lb bbis. ton lots, wks.....		.01%	Sulfate, see <i>Epsom Salts</i>		
cans.....	.90	Single bbl. wks.....		.01%	Manganese Chloride, 600lb cas.		
Iso-Eugenol, 1lb bot.....	4.25	Hydrated, 167lb bbl, ton lots,			NY.....	.09%	.10
JALAP RESIN, lump 5lb tins.....	3.25	wks.....		.01%	Borate, 200lb bbis.....		.18
Powd., tins.....	3.40	Single bbl, wks.....		.01%	100lb kgs.....		.19
KIESELGUHR, 90lb bags NY.....	60.00	Oyster Shell, 150lb bbl, single.....	.03	.03	Dioxide, 80-84% 900lb bbla		
		125lb bag.....	.03		NY.....	80.00	85.00
		Sulfur, dry 200lb drs. NY.....	.08	.10	85-90%, 900lb bbis. NY.ton	85.00	90.00
		Drs. c/1 NY.....		.10%	Hydrated, precip. 100lb kgs.....	.32	.35
		33% Soln. 50 gal. bbis. NY.gal	.15	.16			
		Linalool, 5lb bot.....	7.00	7.25			
		Linalyl Acetate, 1lb bot.....	7.00	10.00			
		Benzonate, 1lb bot.....	13.00	14.00			

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## Chemicals

## Manganese—(continued)

Glycerophosphate, 5 lb tins....lb	...	3.05
Hypophos. USP VIII 5 lb cans..lb	...	1.65
Iodide, 1 lb bot.....lb	...	6.40
Ore, bulk NY.....unit	...	.30
Sulfate, 600 lb cases NY....lb	...	.11

Marble Flour, bulk.....ton	10.00	12.00
See also Calcium Carbonate		

MENTHOL, USP, 60 lb cases....lb	...	8.20
Less cases, 5 lb tins.....lb	8.40	8.50

MERCURY, metal, 75 lb flask..flask	73.00	75.00
Less Flasks, 5 lb jugs.....lb	1.02	1.04

Bichloride, cryst. 25 lb bxs..lb	...	1.17
Gran. powd., 200 lb kegs....lb	...	1.02

Bisulfate, 25 lb boxes.....lb	...	.86
Blue Mass, 25 lb boxes.....lb	...	.63
Powdered, 25 lb boxes.....lb	...	.64

Powdered, 25 lb boxes.....lb	...	:	.64
Blue Ointment, USP 25 lb cans			

Calomel, 50 lb bxs.....lb	...	1.25
Citrine Ointment 25 lb jars....lb	...	.50

Iodide, green 25 lb jars.....lb	...	4.00
Red, USP 25 lb jars.....lb	...	4.10
Yellow, USP VIII 25 lb jars....lb	...	4.00

Red Precip. USP 25 lb bxs....lb	...	1.38
Powder, USP 25 lb bxs.....lb	...	1.48
White Precip. USP 25 lb bxs....lb	...	1.49
Powder, USP 25 lb bxs.....lb	...	1.54
With chalk, USP 25 lb bxs....lb	...	.62

Meta-Nitroaniline, 300 lb bbls..lb	...	.78
Meta-Nitro-para-Toluidine, 300 lb bbls.....lb	...	2.25

Meta-Phenylenediamine, 300 lb bbls.....lb	...	.98
Meta-Toluylenediamine, 300 lb bbls.....lb	...	.95

## METHANOL (Wood Alcohol)

95%, 50 gal. drms. ext....gal	1.15	1.17
97%, 50 gal. drms. ext....gal	1.18	1.19
Pure, 50 gal. drms. ext....gal	1.25	1.27
Acetone free, 50 gal. drms. ext.gal	1.30	1.40
Bbls. incl. 5c higher		

Methyl Acetone, 100 gal. drums.gal	...	.75
Tank cars.....lb	...	.70

Anthrillate, 1 lb bot.....lb	2.25	2.50
Chloride, 90 lb cyl.....lb	...	.50
Cinnamate, 1 lb bot.....lb	4.00	4.50
Paracresol, 1 lb bot.....lb	8.00	9.00
Salicylate, USP, 50 lb cases..lb	...	.62
500 lb drums.....lb	...	.60
Second Hands, cases.....lb	...	...

Methylene Blue, tech. 100 lb kgs..lb	1.00	1.50
USP, medicinal 5 lb cans....lb	2.25	2.60

Michler's Ketone, 225 lb bbls..lb	...	3.75
Milk, powd. 150 lb bbls.....lb	...	.14
Milk Sugar, see sugar of milk		
Mineral Oil, see oil mineral		

Monochlorobenzene, see chlorobenzene		
Monothylaniline, 900 lb drs....lb	...	1.00
Monomethyl paramidophenol sulfate		
100 lb drs.....lb	...	4.00

Miehler's Ketone, 225 lb bbls.. lb	...	:	3.75
Milk, powd. 150 lb bbls..... lb	.14	:	.15
Milk Sugar, see sugar of milk			

Small Sizes: 1/4 oz. vials, 50c extra;		
1/2 oz. 25c extra; single oz. vial, 7c extra,		
over price for 5 oz. tins. 25 oz. lots in 5 oz. tins. 10c oz. lower than		
above schedule. Less than 10 oz. lots		
15c oz. higher than above schedule.		

Musk Ambrette, 1 lb cans.....lb	14.50	16.50
Ketone, 1 lb cans.....lb	13.00	14.00
Xylene, 5 lb cans.....lb	2.75	3.00

## NAPHTHA, Solvent, 110 gal. dra

wks.....gal	...	...
8000 gal. tank cars wks.....gal	...	...

NAPHTHALENE, Flake, 175 lb bbls.		
wks.....lb	.06 1/4	.07
Bbls. c/l wks.....lb	.06	.07
Bbls., second hands NY....lb	.07 1/4	.08
Balls, 250 lb bbls. wks.....lb	.07 1/4	.08
Bbls. c/l wks.....lb	.07	.08
Crushed bgs. wks.....lb	...	.05
Crude, imp. bgs.....lb	.02 1/4	.03

Nerolin, 1 lb tins.....lb	1.75	2.00
---------------------------	------	------

Nickel Metal, electrolytic 100 lb		
kegs.....lb	.25	.29
Shot, 100 lb kegs.....lb	.25	.30
Salt, single 400 lb bbls. NY..lb	.07 1/4	.11
Double, 400 lb bbls. NY....lb	.08	.10
Oxide, 100 lb kegs NY.....lb	.40	.42

Nitre Cake, bulk wks.....ton	6.50	8.00
500 lb bbls.....ton	9.00	9.75

Nitrobenzene, crude 1000 lb drs.		
wks.....lb	.09 1/4	.10 1/4
Redistilled, 1000 lb drs. wks..lb	.10	.11
Nitronaphthalene, 550 lb bbls..lb	.20	.21
Nitrotoluene, mixed 1000 lb drs.		
wks.....lb	.14	.15

Oil Fuel, see Fuel Oil		
OIL MINERAL, wh. 50 gal. bbls.gal	1.00	1.25
Oil Mirbane, see nitrobenzene		
Opium, see crude drugs		

Orange Mineral, 800 lb cases NY..lb	.15 1/4	.16
500 lb bbls. NY.....lb	.15 1/4	.16 1/4
Ortho-Aminophenol, 50 lb kegs..lb	...	2.50
Ortho-Anisidine, 100 lb drs.....lb	...	...
Ortho-Dichlorobenzene, 1000 lb drs.		
wks.....lb	.15	.17
Ortho-Nitrochlorobenzene, 1200 lb		
dra. wks.....lb	.36	.45
Ortho-Nitrophenol, 350 lb 3 bbls..lb	1.00	1.05

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## Chemicals

Ortho-Nitrotoluene, 1000 lb. drs. wks. ....	.10	: .12	Para-Phenylenediamine, 350 lb. bbls. ....	1.55	: 1.60	Phosphorus, red 110 lb. cs. wks. lb. ....	.50	: .55
Ortho-Toluidine, 350 lb. bbls. ....	.14	: .16	Para-Toluene-Sulfonamide, 175 lb. bbls. ....	.40	: .41	Imported, 112 lb. cases. ....	.45	: .45
Oxgall, USP 5 lb. bot. ....	...	: 3.00	Para-Toluene-Sulfonchloride, 410 lb. bbls. wks. ....	.25	: .30	Yellow, 110 lb. cs. wks. ....	.30	: .35
PALLADIUM, metal 10 oz. lots. ....	51.00	: 53.00	Para-Toluidine, 350 lb. bbls. wks. lb. ....	.95	: 1.00	Imported, 112 lb. cases. ....	.25	: .27½
Pancreatin, USP 5 lb. bot. ....	1.25	: 1.40	PARIS GREEN			Phosphorus Trichloride, 175 lb. cyl. wks. ....	.35	: .35
Papain, 1 lb. bot. ....	2.15	: 2.25	Arsenic Basis, 500 lb. kegs. ....	.29	: .31	Phthalic Anhydride, 175 lb. bbls. lb. ....	.35	: .40
Paramn, ref'd. 200 lb. cs. slabs			Kegs, 100 lbs. ....	...	: .33	Pilocarpine Hydrochloride, USP 25 oz. lots, 1 oz. vials. ....	...	: 5.50
120-125 Deg. M. P. ....	.03½	: .03½	Kits, 56, 28, 14 lbs. ....	...	: .34	Nitrate ....	...	: 5.50
125-130 Deg. M. P. ....	.04	: .04½	Packages, 5 and 2 lbs. ....	.35	: .37	Single cones. ....	...	: 5.75
130-135 Deg. M. P. ....	.04	: .04½	Packages, 1 lb., ½, ¼ lb. ....	.37	: .38	Alkaloid, 15 gr. vials. ....	...	: .75
135-140 Deg. M. P. ....	.05	: .05½	Para White, see whitening, French			Piperazine Hydrate, 1 lb. bot. ....	...	: 16.00
Para-Aminocetanilid, 100 lb. kegs. ....	1.35	: 1.35	Pepsin, USP 5 lb. bot. ....	2.25	: 2.50	Pitch, Coal-Tar, wks. ....	30.00	: 33.00
Para-Aminophenol, 100 lb. kegs. lb. ....	1.25	: 1.50	PETROLATUM, green 300 lb. bbls. lb. ....	.02½	: .03	Plaster Paris, tech. 250 lb. bbls. bbl. ....	...	: 3.30
Hydrochloride, 100 lb. kegs. ....	...	: 1.50	Dark Amber 300 lb. bbls. ....	.03½	: .04	True Dental, 300 lb. bbls. ....	...	: 4.50
Para-Dichlorobenzene, 370 lb. bbls. wks. ....	.17	: .20	Light Amber, 300 lb. bbls. ....	.04½	: .04½	Platinum, metal soft 10 oz. lots. ....	...	: 110.00
Paraldehyde, 100 gal. drs. ....	...	: .35	Cream White, USP 300 lb. bbls. ....	.07	: .07½	Podophyllin, 5 lb. bot. ....	6.00	: 6.25
Paraformaldehyde, USP 100 lb. cs. lb. ....	.52½	: .55	Lily White, USP, 300 lb. bbls. ....	.09	: .09½	Second Hands ....	5.50	: 6.00
Para Nitroacetanilid, 300 lb. bbls. ....	.50	: .55	Snow White, USP, 300 lb. bbls. ....	.13	: .13½	POTASH, CAUSTIC, solid 88-92% 700 lb. drs. wks. ....	.08½	: .08½
PARA-NITROANILINE, 300 lb. bbls. wks. ton ....	.74	: .75	PHENOL, see also acid carboic			Imp., 88-92% 700 lb. drs. NY. lb. ....	.08	: .08½
Para-Nitrochlorobenzene, 1200 lb. drs. wks. ....	.21	: .30	Open market, 950 lb. drs. ....	...	: .50	USP, by alcohol 5 lb. cans. ....	.46	: .48
Para-Nitro-ortho-Toluidine, 300 lb. bbls. ....	2.75	: 2.85	240 lb. des drs. ....	...	: .50	cases ....	.30	: .35
Para-Nitrophenol, 185 lb. bbls. ....	.75	: .80	Natural 240 lb. des drs. wks. ....	...	: ...	POTASSIUM Acetate, USP 100 lb. kegs. ....	.28	: .29
Para-Nitrodimethylaniline, 120 lb. bbls. ....	1.25	: 1.30	Imported, 336 lb. des drs. ....	...	: ...	Bicarbonate, crys. 220 lb. bbls. lb. ....	.07½	: .08
Para-Nitrotoluene, 350 lb. bbls. ....	.60	: .70	Phenoiphtalein, USP 100 lb. drs. lb. ....	1.50	: 1.60	Bichromate, crys. 900 lb. cases wks. ....	.10	: .10½
Para-oxy-Benzaldehyde, 100 lb. kegs. ....	1.50	: 1.60	5 lb. cans, 100 lb. lots. ....	1.55	: 1.60	Powd., 900 lb. cases wks. ....	.13	: .13½
Para-Pteretidin, 500 lb. drs. ....	1.55	: 1.80	Phenylacetaldehyde, C.F., 1 lb. bot. lb. ....	9.00	: 12.50	Rinorolate, 300 lb. bbls. ....	.34	: .35
			50 p.c. ....	8.00	: 8.00	Risulfate, C.F. 5 lb. cans. ....	...	: .30
			Phenyl-Alpha-Naphthylamine 100 lb. kegs. ....	...	: ...	100 lb. kegs. ....	...	: .22
			Phenylethylalcohol, 1 lb. bot. ....	7.50	: 9.00	Bromate, 100 lb. cs. ....	...	: .45
			Imported ....	9.50	: 12.00	BROMIDE, USP cryst. 450 lb. bbls. ....	...	: .26
			Phosgene, cylinders, wks. ....	.60	: .62	Granular, 300 lb. bbls. ....	...	: .26
			Phosphorus Oxichloride, 175 lb. cyl. lb. ....	.35	: .40	Cases, 100 lb. ....	...	: .27
						Imported, USP, 220 lb. cs. ....	.14½	: .15

## Phthalic Anhydride

WASTE of valuable storage space as well as expensive freight and handling costs are unavoidable when using ordinary grades of Phthalic Anhydride, which occur as long, bulky needle crystals.

We have developed a finely divided crystalline type that is especially suitable for making dyes of alcohol denaturants. It is unsurpassed in chemical purity and far superior in physical structure to any other brand.

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New York, N. Y.



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MADE BY AIR OXIDATION PROCESS  
HIGHEST DEGREE OF PURITY  
NO VARIATION IN QUALITY

# The Selden Co.

PITTSBURGH, PENN., U. S. A.

Specifications on Request



## Chemicals

## POTASSIUM—(Continued)

<b>CARBONATE, 80-85% calc.</b>		
800 lb cks. ....D	.05%	.08
80-85%, hydrated, 800 lb. cks. ....D	.07%	.08
90-95% casks ....D	.08%	.08%
96-98% casks ....D	.08	.08%
99% casks ....D	.08	.08%
USP, 100 lb kegs ....D	.10	.11
Chlorate, crys. 112 lb kegs. c/l wks. ....D	.08%	.08%
Imp. 112 lb kegs NY ....D	.07	.07%
Powd., 112 lb kegs wks ....D	.08%	.08%
Imp. kegs NY ....D	.07	.07%
Pyrotechnic, fine powd. NY ....D	.08	.09
USP, fine crys. 110 lb kegs NY ....D	.08	.09
Citrate, USP 10 lb cans ....D	.63	.66
Glycerophosphate, 75% Soln. 25 lb tins ....D	1.65	1.70
Gualacol Sulfonate, 5 lb cans, 10 lb ....D	1.50	1.75
Hypophosphite, 10 lb cans ....D	...	.85
Iodide, USP, 100 lb cases ....D	3.75	3.85
Second Hands, cases ....D	...	3.65
Lactophosphate, 4 oz bot. ....oz	...	.90
Metabisulfite, 300 lb bbls ....D	...	.23
Imp., 300 lb bbls ....D	.14	.16
Muriate, 80%, 200 lb bags, NY K <sub>2</sub> O unit ....	...	.70
Nitrate, see Saltpetre		
Oxalate, neutral, 100 lb kegs ....D	.40	.45
Perchlorate, 112 lb kegs ....D	.09	.10
Permangan. USP crys. 112 lb dra. ....D	.21	.22
Prussiate, red, 100 lb bbls ....D	...	.85
500 lb cases ....D	...	.80
Prussiate, yellow, 500 lb casks ....D	.37%	.38
Salicylate, 25 lb cans ....D	.70	.73

## POTASSIUM—(Continued)

Sulfate, 200 lb bags, NY K <sub>2</sub> O unit ....	.95
USP, VIII, 100 lb kegs ....D	.18
Sulfocyanide, CP 25 lb jars ....D	.70
Tartrate, neutral, 100 lb kegs ....D	.53
Titanium Oxalate, 200 lb bbls. freight allowed ....D	.35
Pumice Stone, lump, 250 lb bbls. ....D	.04%
Lump, bags ....D	.03%
Powdered, 350 lb bbls ....D	.02%
Pyridine, 50 gal. drums ....gal	2.35 : 2.50
<b>QUICKSILVER, see Mercury</b>	
Quinidine Alk., 100oz tins ....oz	.70
Sulfate, 100oz tins ....oz	.50
<b>QUININE SULFATE, USP,</b>	
American, 100oz tins ....oz	.50
1oz tins, 100oz lots ....oz	.57
Dutch, 100oz tins ....oz	.50
Java, 100oz tins ....oz	.50
Japanese, 100oz tins ....oz	.50
<b>QUININE ALK., USP, 100oz tins. ....oz</b>	
Acetate ....oz	.38
Arsenate ....oz	.38
Benzate ....oz	.38
Bisulfate, USP ....oz	.50
Citrate ....oz	.62
Dihydride, USP ....oz	.66
Dibromide ....oz	.66
Dicarbonate, 10oz tins ....oz	2.50
Ethyl Carbonate, 16 oz tins ....oz	.95
Ferrocyanide ....oz	.82
Formate ....oz	.85
Glycerophosphate ....oz	.88
Hydriodide ....oz	.88
Hydrobromide, USP ....oz	.62
Hydrochloride, USP ....oz	.62
Hydrochlorosulfate ....oz	.66

## QUININE—(continued)

Hydride & Urea, USP ....oz	.88
Hypophosphite ....oz	.83
Lactate ....oz	.78
Phenolsulfonate ....oz	.88
Phosphate ....oz	.74
Salicylate, USP ....oz	.63
Tannate, USP ....oz	.45
Tartrate ....oz	.88
Valerate ....oz	.89

Small Sizes: 1oz vials or cans, 50oz lots, 50 oz extra; 50oz cans, 50oz lots 30 oz extra; 25oz cans, 50oz lots, 30 oz extra; single 1oz vials or cans, 50 extra. All minor quinine salts sold and quoted basis 100oz lots in 100oz cans. Sulfate and bisulfate sold basis 100oz lots in 100oz cans. Smaller orders or containers extra as above schedule.

R SALT, 250 lb bbls. wks ....D	.55	.70
Red Lead, see lead oxide		
Red Precipitate, see mercury.		
Resorcin, see resorcinol.		
Resorcinol tech. 100 lb kegs ....D	1.50	1.55
USP, 25 lb cans ....D	2.00	2.10
Rochelle Salt, USP, 225 lb bbls. ....D	...	.21
Imp. USP, 300 lb bbls ....D	.19	.21
Rosewater, triple, 5 gal. demis. ....gal	.90	1.10
Rotten Stone, lump imp., bbls. ....D	.07	.03
Lump selected, bbls. ....D	.09	.12
Powdered, bbls. ....D	.02	.05
Domestic, bags, mines ....ton	24.00	20.00



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## Chemicals

SACCHARIN, USP, 1 lb cans, 25 lb			Soap, Castile, 40 lb bxs.....lb			SODIUM ACETATE, crys 450 lb bbls		
Soluble, USP, 1 lb cans, 25 lb..lb			Powd. USP, 250 lb bbls.....lb			wks.....lb		
Safrol, 60 lb cans.....lb			Green, USP, 150 lb kegs.....lb			Ton lots, bbls. wks.....lb		
Sal Ammoniac, see Ammon. Chloride			Soapstone, see Talc, crude			Imp. 500 lb casks.....lb		
Sallein, USP, 1 lb cartons, 25 lb..lb			Prices on soda alkalies are based on actual			Aluminum Sulfate, see alum soda.		
Saloil, USP, 100 lb drums.....lb			percentages and not N. Y. & L. test.			Benzonate, USP, 250 lb bbls.....lb		
Salt, Common, see sodium chloride.			SODA ASH, 58% light bags NY			Bicarbonate, 400 lb bbls NY100 lb		
Salt Cake, c/l f.o.b. wks.....ton			flat, ex-warehouse.....100 lb			Bbls. c/l wks.....100 lb		
SALT PETRE, Double Refined			Bbls., ex-warehouse.100 lb			112 lb kegs wks.....100 lb		
Granular, 400-500 lb bbls.			Contract, Basis 48% bags c/l			112 lb kegs, NY.....100 lb		
c/l wks.....lb			wks.....100 lb			Bichromate, 600 lb casks wks..lb		
Less c/l works, bbls.....lb			Prompt and spot, Basis 48% bags			Casks, c/l wks.....lb		
Large Crystals, 350-400 lb bbls.			c/l wks.....100 lb			Bisulfite, dry powder, 500 lb		
c/l wks.....lb			Soda Ash, 58% dense, bags ex-			bbls, wks.....lb		
Small Crystals, 350-400 lb bbls.			warehouse, NY.....100 lb			Solution, 32-40°, 500 lb bbls		
c/l wks.....lb			Bbls., ex-warehouse.100 lb			wks.....100 lb		
Powdered, bbls. c/l wks.....lb			Contract, Basis 48% bags c/l			Bromide, USP, Cryst 500 lb bbls		
Imported, 500 lb bbls, NY.....lb			wks.....100 lb			Cases, 100 lb.....lb		
Santonin USP, 1 lb bot.....lb			Prmpt and spot, Basis 48% bags			Imp. USP, 112 lb c.....lb		
Powd, 1 lb bot.....lb			c/l wks.....100 lb			25 lb.....lb		
Saponin, ex Quillaja, 5 lb tins.....lb			SODA, CAUSTIC, 76% solid, resale,			Carbonate, sal soda, 350 lb bbls		
Schaeffer's Salt, 250 lb bbls.wks..lb			NY flat.....100 lb			le/l NY.....100 lb		
Scopolamine, see hyoscine.			76% solid dra. ex-warehouse			Works c/l.....100 lb		
Seidlitz Mixture, 225 lb bbls.....lb			NY.....100 lb			Monohydrate, 400 lb bbl.		
SILICA			Contract basis 60% c/l wks			le/l.....100 lb		
Crude, bulk, mines.....ton			100 lb.....lb			Pure photographic, 100 lb		
Refined, floated, bags.....ton			Prmpt and spot, Basis 60%			keg.....lb		
Air floated, bags.....ton			c/l wks.....100 lb			Chlorate, 112 lb kegs, wks...lb		
Extra, floated, bags.....ton			Contract 60% low grade c/l			Imported, 112 lb kegs.....lb		
SILVER, metal, American.....oz			wks flat.....100 lb			Chloride, tech 200 lb bags,ton		
Foreign.....oz			Ground & flake, 76% pmpt and			C. P. 300 lb bbls.....lb		
Colloidal, 16oz bot.....oz			spot, wks c/l dra.....100 lb			Citrate, USP, IX, 100 lb kegs..lb		
Silver Iodide, 16oz bot.....oz			Contract, 76% drums, c/l wks			USP, VIII, 100 lb kegs.....lb		
Nitrate, USP, 200oz bot.....oz			Shal.....100 lb			Cyanide, 96-98%, 100 lb cases		
Nucleinate, 16oz bot.....oz			76% dra. ex-warehouse NY100 lb			wks.....lb		
Proteinates, 16oz bot.....oz			USP, stick, 10 lb cans.....lb			Ton lots, wks.....lb		
			Pure, stick, by alcohol.....lb			73-76%, 100 lb cases, wks..lb		
						Imp. 128%, 200 lb cases..lb		
						120%, cases.....lb		
						Fluoride, 350 lb bbls, NY imp..lb		

Soda Ash  
Modified Soda  
Bicarbonate of Soda



Caustic Soda  
Special Alkali  
Textile Soda

## DIAMOND TESTED ALKALIES

Our products are sold strictly on a quality basis. The Diamond brand on alkalies is assurance of a tested product, manufactured in the most modern alkali plants in the world.

Diamond 58% Soda Ash, Diamond 76% Caustic Soda and Diamond Textile Sodas are extensively used in the textile industries. Shipments from works in earload lots. Warehouse stocks carried by dealers at convenient points.

Manufactured and Sold by

**DIAMOND ALKALI COMPANY**

GENERAL OFFICES PITTSBURGH, PA.

## Chemicals

## SODIUM—(Continued)


Glycerophos, USP, crys 25 lb cans	1.70	1.75
Powder, 25 lb tins	1.75	1.80
Solution, USP 25 lb tins	1.00	1.05
Hydroxide, see Soda Caustic		
Hypochlorite, Soln, 100 lb chys. lb	.05 1/4	.06
Hyposulfite, 200 lb bbls, fob, wks. lb	.19	.22
Hypophosphite, USP, 25 lb cans		.75
HYPOSULFITE, tech. pea crys., 375 lb bbls. wks. 100 lb	3.50	3.75
Bbls. c/l wks. 100 lb		3.25
100 lb kegs wks. 100 lb	3.75	4.00
Granulated, bbls. wks. 100 lb	3.75	3.90
Bbls. c/l wks. 100 lb		3.75
Kegs wks. 100 lb	4.20	4.50
Regular crystals 100 lb	2.75	3.00
Iodide, USP, 25 lb jars		4.25
Metanilate, 150 lb bbls	.55	.60
Naphthionate, 300 lb bbls	.62	.64
Nitrate, crude, 95%, 200 lb bgs c/l NY		2.67 1/4
Futures, NY		2.65
Double Refined, 400 lb bbls gran c/l wks.		.04 1/4
Nitrite, 500 lb bbls wks.	.09	.09 1/4
Bbls. spot, makers		.09 1/4
Imp. 650 lb casks	.08 1/4	.08 1/4
Ortho-Chloro-para-Toluene Sulfonate, 175 lb bbls wks. lb	.25	.27
Oxalate, neutral, 100 lb kegs. lb		.47
Perborate, 275 lb bbls		.24
Imp, 225 lb drs	.18	.19
Peroxide, 200 lb cases	.25	.27
Phosphate, di-sodium, tech 550 lb bbls	.03 1/4	.03 1/4
USP, gran. 275 bbls	.07	.07 1/4
Imp. gran.	.05 1/4	.06
USP, rerry 275 bbls	.10	.11
Mono-sodium 100 lb kegs.	.24	.26
Tri-sodium tech. c/l, bbls.	.04 1/4	.05
Picramate, 100 lb kegs		.60

## SODIUM—(Continued)

Para-Toluene Sulfonate, 175 lb bbls	.08	.09
PRUSSIAN, yellow, 450 lb caks. lb	.18 1/4	.19
Pyrophosphate, 100 lb kegs	.18	.22
Salicylate, 100 lb kegs	.57	.58
Second Hands, USP, kegs	.48	.50
Silicate, 60° 700 lb bbls. f.a.s. NY		2.00
Works, 1000 lb drums		1.90
Works, tanks		1.75
40° domestic, 700 lb c/l f.o.b. wks.		.80
Works, 1000 lb drums		.82 1/4
Works, tanks		.75
Spot, drums, bbls	1.25	1.50
Silicofluoride, 450 lb bbls NY	.07 1/4	.08
Sulphate, see Glanber's Salt.		
Sulfide, 60% solid, 650 lb drs c/l wks.	.05	.05 1/4
Dr. c/l wks.		.04 1/4
Imp, 700 lb drs NY		.04
60% broken, 650 lb drs wks.	.05 1/4	.05 1/4
Imp, 500 lb drs NY		.04 1/4
30% crys. 400 lb bbls wks.	.02 1/4	.03
Imp, 400 lb bbls		.02 1/4
Sulfite, crys, 400 lb bbls wks. lb	.03 1/4	.03 1/4
Dessicated, 400 lb bbls	.09 1/4	.10
Sulfocarbamate, USP, 100 lb kegs	.36	.38
Sulfocyanide, 400 lb bbls	.45	.47
Tungstate, crys 100 lb kegs		.65
Dessicated, kegs		.65
Solvent Naptha, see Naphtha.		
Spartein Sulfate, USP, 250x bulk. oz	.60	.70
Single oz. vial		.60
Starch, rice, 140 lb bags	.09	.10

## STRONTIUM Bromide, USP, 100 lb

kegs		.33
Carb. 600 lb bbls. wks.		.07
100 lb kegs wks.		.08
Iodide, USP, 25 lb jars		4.00
Nitrate, 600 lb bbls. wks.	.11	.11 1/4
Imp, bbls, NY	.08 1/4	.10
Salicylate, USP, 100 lb kegs		.65
STRECHNINE Alkaloid, USP, crys 1000x tins		1.15
Alk, powd, USP		1.05
Acetate		1.05
Glycerophosphate, USP		1.05
Hydrobromide		1.05
Hydrochloride		1.05
Hypophosphite		1.15
Nitrate, USP		1.05
Phosphate		1.05
Sulfate, USP, crys powd.		.84
Saccharinate		2.15
Strychnine preparations quoted bases 1000x lots in 1000x tins. Small Sizes; 1/4 oz vials, 50c extra; 1/2 oz vials, 25c extra; single ounce vials, 1c extra. Lots of 25 ozs. 5c higher than above schedule. Lots of less than 25 ozs. 10c higher per oz.		
Sugar Milk, USP, 200 lb bbls	.21	.22
Second Hands, USP, bbls	.23	.24
Sulfonal, see Sulfonmethane.		
Sulfonmethane, USP, 5 lb boxes		3.75
Sulfonethylmethane, USP, boxes, 5 lb.		4.75
SULFUR, crude, bulk, c/l NY	18.00	18.00
Crude, f.o.b. plant.	14.00	15.00
Brimstone, 250 lb bgs, c/l 100 lb	1.75	1.95
Less c/l bags NY	1.85	2.10
Roll, 500 lb bbls c/l NY	2.10	2.15
Less c/l bags NY	2.20	2.45
Flour, Heavy, 290 lb bbls, 100 lb	2.50	3.05
Light, 100%, 260 lb bbls, 100 lb	2.60	3.15
Rubbermakers 100%, 240 lb bbls, NY	2.60	3.15



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**CAUSTICIZED ASH**

**CAUSTIC SODA**

**MODIFIED SODA**



## Chemicals

## SULFUR—(continued)

Commercial, 99%, 1500 bgs	
NY .....	1.35 : 1.65
For Dusting, 99%, 1000 bgs NY .....	2.00 : 2.50
Flowers, 100%, 2400 bbls NY .....	3.00 : 3.55
Precipitated, 1250 bbls NY .....	.14 : .16
Lac, 1250 bbls NY .....	.07 : .10
Sulfur Chloride, red, 7000 lbs wks .....	.05 : .06
1500 lbs chys wks .....	.05 : .06
Yellow, 7000 lbs drs wks .....	.05 : .06
1500 lbs chys wks .....	.05 : .06
Sulfur Dioxide, 1000 lbs cyl .....	.08 : .08½
Iodide, USP, VIII, 500 lbs bot .....	4.55
Sulfuric Ether, see Ether	
Sulfuryl Chloride, 6000 lbs drs .....	.70
YALC, Italian, 2200 bgs NY .....	35.00 : 40.00
Refined, white, bags .....	42.00 : 55.00
French, 2200 bgs NY .....	25.00 : 30.00
Refined, white, bags .....	32.00 : 45.00
Dom, crude, 1000 bgs NY .....	15.00 : 18.00
Refined, 1000 bgs NY .....	30.00 : 30.00
Tartar Emetic, tech, 7000 lbs bbls .....	.27 : .27½
USP, 3000 lbs bbls .....	.34½ : .35½
Terpin Hydrate, USP, 1000 lbs kegs .....	.70 : .72
Terpineol, CP 10000 lbs drums .....	.53 : .55
Cans, 6000 lbs .....	.58 : .60
Imported, cans, 2500 lbs .....	1.00
Terpenyl Acetate, 2500 lbs cans .....	1.65 : 1.85
Tetra Alba, No. 1, 3000 lbs bbls .....	1.85 : 1.90
No. 2, bbls .....	1.25 : 1.35
Theobromine Alk., 500 lbs cans .....	6.00
and Sod. Salicylate, 1000 lbs bot .....	4.00
Thiocarbamid, 1700 lbs bbls .....	.28 : .30
Thymol, USP, 1000 lbs cans .....	3.00 : 3.25
Iodide, 500 lbs boxes .....	6.75
TIN, Metal Straits, NY .....	50.00 : 50.25
American standard, NY .....	48.50
99% American, NY .....	48.50
C.P. money, 2500 bbs NY .....	...

## Tin—(continued)

Bichloride, 50% soln 1000 lb bbls wks .....	.13½ : .14
Crystals, 5000 lb bbls wks .....	.36½
1000 lb kegs, wks .....	.37
Oxide, 4000 lb bbls wks .....	.53
1000 lb kegs wks .....	.54
Tetrachloride, 10000 lb drs wks .....	.27½
Tollidine, 3500 lb bbls .....	.95 : .97
Sulfate, 3500 lb bbls .....	1.00
Toluene, 8000 gal tank cars, wks gal .....	.30
110 gal drs wks .....	.35
Toluidine, Mixed, 9000 lb drs wks .....	.27 : .28
Tribromphenol, 1000 lb cases .....	1.00
Trional, see Sulfonethylmethane	
Triphenyl Phosphate, 4500 lb bbls .....	.45
Tripoll, 5000 lb bbls .....	2.50 : 3.00
Tungsten NY .....	7.75 : 8.00
UREA, pharm 1120 cases .....	.40
VANILLIN, USP, 4000 oz cans .....	.41 : .41½
Cans, 80 ozs .....	.41½
Cans, 16 ozs .....	.42½
Vermillon, Amer. 1000 lb kegs .....	.35
English, kegs .....	1.30
Veratrine Sulfate, 1000 vial .....	2.50
Hydrochloride, 1000 vial .....	2.50
WHITE LEAD, see lead, white	
White Precipitate, see mercury	
Whiting, 2000 lb bags, c/l wks ton .....	18.00
Bags, 1000 lb wks .....	20.00
Gilders, bags .....	13.50 : 15.00
French, bags, NY .....	18.00
English, bags, NY .....	23.00
Witch Hazel Extract, 50 gal bbls gal .....	1.20 : 1.25

## XYLENE, 2° dist range, nitration

110 gal drs wks .....	...
5° dist. range, 8000 gal tanks wks .....	...
110 gal drs wks .....	...
Commercial, 110 gal drs, wks gal .....	.34
Tanks, wks .....	.29
Xylidine, 9000 lb drs .....	.41 : .45
YARA YARA, 1000 lbs .....	2.00 : 2.50
Yohimbin Hydrochloride, 1 oz. vial .....	5.00 : 5.50
ZINC, METAL, high grade, slabs	
c/l NY .....	8.50
Common Slabs, c/l NY .....	8.25 : 8.50
Money, 2500 lbs NY .....	...
Ammonium Chloride, powd., 4000 lb bbls .....	.07½ : .08
Carb. tech, 1500 lb kegs NY .....	.14 : .16
USP, 1000 lb kegs .....	.30
Chloride, fused, 6000 lb drs wks .....	.07
Drs. c/l wks .....	.05½
Imp. drs NY .....	.06 : .06½
Granulated, 5000 lb bbls wks .....	.08 : .09
Imported, drs. NY .....	.06 : .06½
USP, 2500 lbs jars .....	.30
Cyanide, 1000 lb drs .....	.42 : .45
Dust, 1000 lbs tins wks .....	.09 : .11
5000 lb bbls, kegs, 1000 lb wks .....	.09½ : .09¾
5000 lb bbls, kegs, c/l wks .....	.08½ : .09
Iodide, 500 lbs bot .....	5.20
Nitrate, 2500 lbs jars .....	.35
Oxide, Amer. 3000 lb bbls, wks .....	.07½ : .08
Bbls c/l wks .....	.07½
French, 3000 lb bbls wks .....	.09½ : .11½
Bbl c/l wks .....	.09½ : .11½
Bags, c/l wks .....	.09½ : .10½
USP, 1000 lb bbls, c/l .....	.15½ : .16½
Ton lots, wks .....	...
Imported, white seal, bbls .....	.13½
Green seal, bbls .....	.10
USP, 1000 lb bbls .....	.15
Stearate, USP, 6000 lb bbls .....	.23
Sulfate, 4000 lb bbls wks .....	.03½ : .03¾
Bbls c/l wks .....	.02½
USP, 1000 lb kegs .....	.08 : .09
Sulfocarbonate, 1000 lb kegs .....	.35 : .37



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## Oils and Fertilizers

## Oils

Caster, No. 1, 400 lb bbls.....	.14	.14%
80 lb cases.....	.15	.15%
No. 3, bbls.....	.13 1/2	.13 1/2%
Blown, 400 lb bbls.....	.14	.15%
China Wood, bbls., spot NY.....	.25	
8000 gal. tks. NY.....	.25	
Apr-May, forward, tanks, NY.....	.25	
Coast, tanks, Apr. forward.....	.21	
Coconut Ceylon, 375 lb bbls. NY.....	.10	.10%
8000 gal. tanks, NY.....	.09 1/4	
Cochin, 375 lb bbls. NY.....	.10%	.11
Tanks, NY.....	.09%	.10
Manila, tanks, Coast.....	.08%	.08 1/2
Edible, bbls, NY.....	.11	.11%
Cod Newfoundland, 50 gal. bbls. gal	.71	.72
Tanks, NY.....	.69	.70
Copra, bags.....	.05%	.05%
Corn, ref. 375 lb bbls. NY.....	.10%	.13%
Crude, tanks mills.....	.10%	.10%
Bbls, NY.....	.12 1/2	.13
COTTONSEED, crude tks. mills.....	.10%	.11
P. S. Y. 100 bbl. lots NY.....	.12	.12 1/2
White, 100 bbl. lots NY.....	.12 1/2	.12 1/2
Winter yellow, 100 bbls. NY.....	.12 1/2	.12 1/2
Nebraska, Amer. 50 gal. bbls. NY.....	.04 1/2	.05
English, bbls. NY.....	.09	.14
Neutral, bbls. NY.....	.10%	.11
Grease, choice white bbls, NY.....	.08%	.09
Yellow.....	.08 1/2	.08%
Brown.....	.08 1/2	.08%
House.....	.08 1/2	.08%
Bone naphtha.....	.08 1/2	.08%
Herring, Tanks, Coast.....	.13 1/2	.13 1/2
Hove, 375 lb bbls. NY.....	.13	.13
Lard, prime steam bbls.....	.13 1/2	.13 1/2
Compound, bbls.....	.13	.13
LARD OIL, Edible prime, bbls.....	.13 1/2	.13 1/2
Off prime, bbls.....	.14	.14%
Extra, bbls.....	.14	.14
Extra No. 1, bbls.....	.13%	.13%
No. 1 bbls.....	.13%	.13%
No. 2 bbls.....	.12%	.12%

LINSEED, raw c/l bbls. spot.....	gal	...	...
Five bbls., raw.....	gal	1.04	1.04
Boiled, 5 bbl. lots.....	gal	1.07	1.07
Double boiled 5 bbl. lots.....	gal	1.10	1.10
Kaw, 1 c/l bbls.....	gal	1.04	1.04
Apr-May, c/l bbls.....	gal	1.01	1.01
Imported, bbls., NY.....	gal	.98	1.00
Menhaden, crude, bbls., wks.....	gal	...	...
Crude, tanks wks Balt.....	gal	...	...
Light strained, tanks.....	gal	.73	.73
Light strained, bbls., NY.....	gal	.75	.75
Yellow bleached, bbls., NY.....	gal	.78	.78
Blown, bbls, NY.....	gal	.86	.86
Neatsfoot, 20° c.t. bbls. NY.....	lb	.18 1/2	.20
30° cold test, bbls. NY.....	lb	.15 1/2	.15 1/2
Prime, bbls, NY.....	lb	.14%	.14%
Oil, No. 1, bbls. NY.....	lb	.13%	.14
No. 2, bbls., NY.....	lb	.11%	.12
No. 3, bbls., NY.....	lb	.10%	.10 1/2
OLIVE, denatured bbls. NY.....	gal	1.15	1.17
Edible, bbls., NY.....	gal	1.80	2.20
Foots, bbls, NY.....	gal	.09%	.09%
Shipment.....	gal	.08%	.09
Palm Lagos, 1500 lb casks.....	lb	.08%	.08%
Niger, casks.....	lb	.08%	.08%
Bonny old Calabar, casks.....	lb	...	...
Palm Kernel, 1500 lb casks NY.....	lb	.09%	.09%
Peanut, refined bbls, NY.....	lb	.17	.17 1/2
Crude, mills buyers' tks.....	lb	...	...
Crude, bbls, NY.....	lb	.15	.15
Apr. Arriv. f.o.b., NY bbls.....	lb	.15%	.16%
Perilla, bbls, NY.....	lb	...	...
Apr-May, ship. bbls, NY.....	lb	.15%	.16
Poppysseed, bbls. NY.....	gal	...	2.50
Rapeseed, refined bbls, NY.....	gal	.85	.86
Blown, bbls., NY.....	gal	...	1.05
Red Oil, distilled, bbls.....	lb	.11%	.12%
Saponified, bbls.....	lb	.11%	.12%
Salmon, 8000 gal. tks. Coast.....	gal	...	...
Sesame, domestic edible bbls.....	gal	...	1.20
Sod Oil, bbls. NY.....	gal	...	.45

SOYA BEAN, crude tks. Coast.....	lb	.10%	.10%
Crude, Tks. D.P., NY.....	lb	.10%	.11%
Crude, bbls, NY.....	lb	.12%	.13%
Refined, bbls, NY.....	lb	.13%	.13 1/2
Sperm, 38° e. t. blech. bbls. NY.....	gal	...	1.09
45° cold test, blech. bbls. NY.....	gal	...	1.04
STEARIC ACID, s. p. 200 lb bags.....	lb	...	.12 1/2
Double pressed, bags.....	lb	.14%	.15
Double pressed, bags, saponified.....	lb	.14%	.15
Triple pressed, bags, distilled.....	lb	.16	.16 1/2
Triple pressed, bags, saponified.....	lb	.16	.16 1/2
Stearine, oleo, bbls.....	lb	...	.11 1/2
Lard, bbls.....	lb	...	.13
Tallow, edible, tierces.....	lb	.10%	.11
City extra, loose.....	lb	.09%	.09%
Tallow Oil, acidless tks. NY.....	lb	...	.11%
Bbls., c/l NY.....	lb	...	.13%
Teaseed, crude bbls. NY.....	lb	...	.13%
Walnut, crude bbls, NY.....	gal	...	.73
Whale, nat. winter bbls, NY.....	gal	...	.75
Bleed. winter bbls, NY.....	gal	...	.78
Extra Blech. bbls, NY.....	gal	...	.78
Crude, No. 1, tanks Coast.....	lb	...	...
Crude, No. 2, tanks Coast.....	lb	...	...
Crude No. 3, tanks Coast.....	lb	...	...

## Fertilizer Materials

Ammon. Sulf. bulk wks.....	100 lb	...	3.50
Double bags, f.a.s. NY.....	100 lb	4.10	4.20
Blood, dried f.o.b. NY.....	unit	...	4.75
Bone, 3 & 50 ground raw.....	ton	...	32.00
Raw, Chicago.....	ton	...	30.00
Cyanamide wks.....	unit	2.20	2.25
Fish Scrap, dried wks.....	unit	5.35	5.10
NITRATE SODA, NY.....	100 lb	...	2.67%
Phosphate Rock, f.o.b. mines.....	ton	3.00	5.50
Florida pebble, 68-75%.....	ton	3.00	3.25
Tennessee, 70-75%.....	ton	...	10.00
Phosphate Acid, 16% Bulk wks.....	ton	...	.68
Potassium Muriate, 80%.....	unit	...	.93
Sulfate.....	unit	...	35.00
Steamed Bone Meal, NY.....	ton	4.50	4.50
Tankage, ground NY.....	unit	4.50	4.50
High grade, f.o.b. Chicago.....	unit	4.50	4.50

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## Naval Stores

(Carloads ex-yard N. Y.)

Spirits Turpentine, bbls.	gal	...	1.53
Wood Turpentine, atm. distd. bbls.	gal	...	1.43
Destructive distilled, bbls.	gal	...	1.13
Pitch, prime	bbl	6.00	6.50
Rosins (Sold in 600 lb bbls., gross for net, quotations based on a unit of 280 lb)			
B	280 lb	...	6.00
D	280 lb	...	6.15
E	280 lb	...	6.15
F	280 lb	...	6.15
G	280 lb	...	6.15
H	280 lb	...	6.15
I	280 lb	...	6.15
K	280 lb	...	6.20
N	280 lb	...	6.35
WG	280 lb	...	7.00
WW	280 lb	...	8.00
Resin Oil, first run, 50 gal. bbls.	gal	...	.47
Second run, bbls.	gal	...	.49
Tar, kiln-burnt	bbl	...	12.50
Retort	bbl	...	13.50

## Woods

Barwood, chips	lb	.04½	.05
Camwood, chips	lb	.09	.13
Divi Divi, pods 100-200 lb bags	ton	32.00	34.00
Fustic, sticks	ton	35.00	37.00
Chips	lb	.04	.06
Hemlock, bark	ton	16.00	18.00
Hyperic, chips	lb	.06½	.07
LOGWOOD, sticks	ton	...	30.00
Chips 150 lb bags	lb	.02½	.03
Mangrove bark, African	ton	...	85.00
Bark, South American	ton	25.00	30.00

Myrabolans, 150 lb bags J1	ton	...	28.00
B1	ton	...	24.00
B2	ton	...	17.00
Nuts, see Crude Drugs			
Oak bark, whole	ton	20.00	23.00
Ground	ton	...	25.00
Quercitron bark, rough	ton	...	10.00
Ground	ton	20.00	25.00
Sumac, Sicily, 160 lb bags	ton	57.00	60.00
Virginia, 150 lb bags	ton	...	35.00
Valonia Cups, 28-33% tan	ton	31.00	35.00
Beard, 40% tan, 150 lb bags	ton	48.00	50.00
Wattle bark, 150 lb bags	ton	38.00	40.00

## Extracts

Range of prices includes quality range for large quantity.

Annatto, fine	lb	.26	.29
Archil, double 600 lb bbls.	lb	.18	.18
Triple, 600 lb bbls.	lb	.17	.19
Conc., 600 lb bbls.	lb	.18	.20
Chestnut, clarified, 25% tks. wks. ton	ton	...	2.00
Bbls., wks.	lb	...	.02½
Powd., 60% 100 lb bbls. wks. lb	lb	.05½	.05½
Decolorized, bbls. wks.	lb	.09	.09½
Cudbear, English	lb	.21	.23
Cutch, Rangoon, 100 lb bales	lb	.13	.16
Borneo, solid, 100 lb bales	lb	.04½	.05½
Liquid, 450 lb bbls.	lb	.10	.11
Tablets, 120 lb boxes	lb	.13	.14
Flavine	lb	.90	.95
Fustic, solid 50 lb boxes	lb	.14	.18
Crystals, 100 lb boxes	lb	.22	.24
Liquid, 51°, 600 lb bbls.	lb	.10	.14
Gai extract	lb	.16	.18
Gambler, 25% liq. 450 lb bbls.	lb	.08½	.09½
Common, 200 lb cases	lb	.05½	.05½
Singapore cubes, 150 lb bags	lb	.07	.07½
HEMATINE, Paste, 500 lb bbls.	lb	.11½	.13½
Crystals, 400 lb bbls.	lb	.16	.20
Hemlock, 25% 600 lb bbls. wks.	lb	.03½	.03½
Hyperic, 51°, 600 lb bbls.	lb	.15	.20
Indigo, Madras bbls.	lb	.85	.90
Manila, bbls.	lb	...	1.30

Larch, 25%, 600 lb bbls., wks.	lb	.03½	.03½
Powd. 100 lb bags, wks.	lb	.07½	.08
Logwood, 51°, 450 lb bbls.	lb	.07½	.12½
Solid, 50 lb boxes	lb	.15	.21
Bladder, Dutch	lb	.28	.30
Mangrove, 55% 400 lb bbls.	lb	.05½	.05½
Myrabolans, 25% liquid bbls.	lb	.04	.05
50% solid, 50 lb boxes	lb	.04½	.05
Oak, tanks wks.	lb	.04½	.04½
23-25% liq. 600 lb bbls. wks.	lb	.05	.05½
Osage Orange, 50° liquid	lb	.07	.08
Powd. 100 lb bags	lb	.15	.16
Persian Berries	lb	.27	.30
QUEBRACHO, 35% liquid tks.			
450 lb bbls.	lb	.03½	.03½
35% bleaching, 450 lb bbls.	lb	.04½	.05½
Solid 65% 100 lb bales	lb	.04½	.05½
Clarified bales	lb	...	.06
Quercitron, 51° 450 lb bbls.	lb	.06½	.07½
Powdered, 100 lb boxes	lb	.09	.13
Spruce, 25% liquid tanks wks.	lb	.01	.01½
Powd. 50% 100 lb bags wks.	lb	.02	.02½
Sumac, liquid 450 lb bbls.	lb	.07	.09

## DYERS' SUNDRIES

Ibument, technical, egg 200 lb cs.	lb	...	.88
Blood, domestic, 100 lb drs.	lb	...	.35
British Gum, 140 lb bags c/1 100 lb	lb	...	3.39
Bags lc/1	lb	...	3.67
Dextrin, corn 140 lb bags c/1 100 lb	lb	...	3.09
Bags lc/1	lb	...	3.37
Potato 140 lb bags c/1 100 lb	lb	...	.09
Bags lc/1	lb	...	.09½
Prussian blue	lb	.60	.62
Sago Flour, 150 lb bags	lb	.03½	.03½
Spray Yolk 150 lb cs.	lb	.35	.45
STARCH, powd. 140 lb bags c/100 lb			
Bags lc/1	lb	...	2.47
Pearl, 140 lb bags c/1 100 lb	lb	2.37	2.65
Potato, domestic, 140 lb bags.	lb	.05½	.05½
Imported, bags duty paid.	lb	.06	.07½
Taploca Flour, high grade bags.	lb	.05	.05
Medium grade, bags	lb	.03½	.04
Low grade, bags	lb	.03	.03½
Turkey Red Oil, bbls.	lb	.09	.11
Yolk Oil, bbls.	lb	...	.35



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## Crude Drugs

## Crude Drugs

Accroides Gum, yel., . . . . .	.18	: .20
ACONITE Leaves, bales. . . . .	.16	: .17
Aconite Root, USP. bags. . . . .	.35	: .40
Agar Agar, 1, 200 lb bales. . . . .	. . .	: 1.80
No. 2, bales. . . . .	. . .	: 1.65
No. 3, bales. . . . .	. . .	: 1.55
Agaric, white, cases. . . . .	. . .	: . . .
Almonds, bitter bags bxs. . . . .	.32	: .35
Sweet, bags. . . . .	.45	: .46
Meal, tins, boxes. . . . .	.28	: .30
Aletris Root, bags. . . . .	.60	: .62
Alkanet Root, bags. . . . .	.08	: .10
Aloes, Barbadoes, 120 lb bbls. . . . .	.70	: .75
Cape, 400 lb cases. . . . .	.07½	: .08
Curacao, 100 lb cases. . . . .	. . .	: .09
Socotrine, whole 100 lb cs. . . . .	.30	: .32
Althea Root, cut cases. . . . .	.15	: .16
Whole bags. . . . .	.09	: .10
Ambergris, black boxes. . . . .	. . .	: 8.00
Grey, boxes. . . . .	. . .	: 28.00
Ammoniac, tears, bags. . . . .	1.35	: 1.40
Angelica Root, dom. bags. . . . .	.14	: .15
Angelica Bark, bags. . . . .	.14	: .15
Antise, Levant bags. . . . .	.17	: .17½
Star, cases. . . . .	.14½	: .15
Spanish, bags. . . . .	.26	: .27
Annatto Seed, bags. . . . .	.06	: .07
ARABIC GUM, 200 lb cases. . . . .	.26	: .27
Seconds, 250 lb bags. . . . .	.22	: .24
Soris, amber, 200 lb bags, bbls. . . . .	.15½	: .16
Powd., USP, 300 lb bbls. . . . .	.22	: .23
Areca Nuts, 150 lb bags. . . . .	. . .	: .09
Powd., 200 lb bbls. . . . .	. . .	: .12
Arnica Flowers, bales. . . . .	.11	: .11½
Root, bags. . . . .	.20	: .22
Arrowroot, Amer. powd. bbls. . . . .	.05½	: .06
St. Vincent, powd. bbls. . . . .	.14	: .15
Asafetida, USP, 250 lb cases. . . . .	.32	: .35
Powd., 50 lb bxs. . . . .	.55	: .60
BALM GILEAD BUDS, bags. . . . .	.45	: .47
Balmory Herb, bales. . . . .	. . .	: .14

## BALSAMS

Copaiba, Para, 80 lb cs. . . . .	.23	: .25
South American, 80 lb cs. . . . .	.28	: .29
Fir Canada, cans. . . . .	11.00	: 12.00
Oregon, bbls., cans. . . . .	. . .	: 3.00
Peru, 120 lb cases. . . . .	1.80	: 1.85
Tolu, 90 lb cases. . . . .	.82½	: .85
Bamboo Briar Root, bags. . . . .	.06	: .07
Barberry Bark, tree bales. . . . .	.22	: .24
Bayberry Bark, bales. . . . .	.10	: .12
Wax, bbls. . . . .	.35	: .38
Belladonna Leaves, bales. . . . .	.17	: .18
Root, bags. . . . .	.12	: .13
Bees Wax, white bbls. . . . .	.36	: .37
Root, bags. . . . .	.25	: .26
Yellow, refined bbls. . . . .	.23	: .25
Crude, bags. . . . .	.20	: .22
Benzoin Gum, Siam, boxes. . . . .	1.10	: 1.15
Sumatra, 80 lb boxes. . . . .	.32	: .35
Berberis Aquifolium Root, bags. . . . .	.16	: .17
Beth Root, bags. . . . .	.18	: .20
Blackhaw Bark, root, bales. . . . .	.41	: .43
Tree, bales. . . . .	.25	: .26
Blood Root, bags. . . . .	.13	: .15
Blueflag Root, bags. . . . .	.23	: .25
Boldo Leaves, bales. . . . .	.20	: .21
Boneset Herb, bales. . . . .	.08	: .10
Borage Flowers, bales. . . . .	.28	: .30
Bryonia Root, bales. . . . .	.10	: .11
BUCHU LEAVES, short, 350 lb bales. . . . .	.92	: .95
Less, bales. . . . .	.95	: .97
Long, bales. . . . .	. . .	: . . .
Buckthorn Bark, bales. . . . .	.07	: .08
Burdock Root, bags. . . . .	.20	: .22
Burgundy Pitch, dom. 110 lb stands. . . . .	. . .	: .05
Gross for net. . . . .	.13	: .14
Calabar Beans, bags. . . . .	.40	: .45
Calamus Root, bleached cases. . . . .	.07	: .08
Unbleached, bags. . . . .	. . .	: .30
Calendula Petals, imp. bales. . . . .	.14	: .16
Calisaya Bark, bales. . . . .	. . .	: .06½
Camphor, see Chemicals. . . . .	.05	: .05½
Canary Seed, Morocco bags. . . . .	.27	: .30
South American, bags. . . . .	. . .	: .45
Candella Wax, bags. . . . .	. . .	: 5.75
Canella Alba Bark, bales. . . . .	.90	: 1.00
Cannabula, true imp. bags. . . . .	. . .	: . . .
American (no assay) bales. . . . .	. . .	: . . .

Cannabis, USP. bales. . . . .	. . .	: 2.00
Cantharides, Chinese cases. . . . .	1.05	: 1.10
Powd., boxes. . . . .	1.25	: 1.35
Cantharides, Russian, cases. . . . .	1.75	: 1.90
Powdered, boxes. . . . .	1.90	: 2.00
Caraway Seed, African bags. . . . .	. . .	: . . .
Dutch, 110 lb bags. . . . .	.30	: .31
Cardamom bleached cases. . . . .	1.10	: 1.75
Decorticated, cases. . . . .	1.15	: 1.25
Green, grinding, bags. . . . .	1.05	: 1.10
Carouba Wax, Flor. bags. . . . .	.45	: .48
No. 1 N Country bags. . . . .	.40	: .43
No. 2 N Country bags. . . . .	.33	: .35
No. 3 Fatty Gray, bags. . . . .	.20	: .21
No. 3 Chalky, bags. . . . .	.16½	: .17
Cascara Amarga, 150 lb bales. . . . .	.30	: .33
Cascara Sagrada, bales. . . . .	.14	: .14½
Cascarilla Bark, quills bales. . . . .	.30	: .35
Siftings, bbls. . . . .	.20	: .25
Cassia Buds, 66 lb cases. . . . .	.15	: .16
China, select, mats cases. . . . .	.06½	: .08
Saigon, assort. bales. . . . .	.24	: .27
Cassia Fistula, baskets. . . . .	. . .	: .12
Caster Beans, bags. . . . .	.03	: .03½
Castoreum, 1 lb boxes. . . . .	4.00	: 4.50
Catechu Gum, bags. . . . .	.09	: .10
Catnip Herb, bales. . . . .	.12	: .15
Celery Seed, 220 lb bags. . . . .	.23	: .23½
Cereine Wax, white bags. . . . .	.08½	: .09
Yellow, 200 lb bags. . . . .	.07½	: .08
CHAMOMILE FLOWERS, Roman bales. . . . .	1.20	: 1.25
Hung. cases bales. . . . .	.17	: .19
Charcoal Willow, powd. bbls. . . . .	.06	: .06½
Wood, powd. bbls. . . . .	.04	: .05
Chestnut Bark, bags. . . . .	.07	: .08
Herb, bales. . . . .	.06	: .06½
Chicle Gum, bags. . . . .	.80	: 1.00
Chivetta, bales. . . . .	.12	: .14
Cinchona Bark, red quills bales. . . . .	.50	: .55
Broken, bales. . . . .	.16	: .17
Cinnamon, Ceylon, bales, bond. . . . .	.20	: .22
Civet, Abyssin horns. . . . .	2.75	: 3.75
Clover Tops, bags. . . . .	.09	: .10
Cloves, Zanzibar, 135 lb bales. . . . .	.26½	: .27
Amboyna, bales. . . . .	. . .	: . . .
Penang, bales. . . . .	. . .	: . . .

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## Crude Drugs

Cochineal, USP boxes.....D	.40	.45	Dogwood Bark, Jamaica bags....D	.10	.11	Grindelia Robusta Herb, bales...D	.09	.10
Coca Leaves, Huancayo bags....D	...	...	Flowers, bales.....D	...	.15	Guaiac Gum, 80 lb cases.....D	.40	.42
Truxillo, bags.....D	.40	.45	Doggrass Root, USP, cut bags....D	.12	.14	Guarana, tins, cases.....D	.60	.75
Cobosh Root, Black bags.....D	.09	.09½	Dragons Blood, mass cases.....D	.60	.62	GUM, see Arabic Gum, etc.		
Blue, bags.....D	.09	.09½	Reeds, boxes.....D	...	1.40	<b>HELLEBORE ROOT.</b>		
Colchicum Root, bags.....D	.08	.09	<b>ECHINACEA ROOT, bags.....D</b>	.33	.34	Black, pwd. bbls.....D	...	.14
Seed, bags.....D	.11	.12	Elecampane Root, bags.....D	.09	.10	White, bags.....D	.12	.14
Colombo Root, whole bags.....D	.02	.04	Elder Flowers, bales.....D	.20	.22	Powdered, 250 lb bbls.....D	.16	.17
Colocynth, apples, cases, bales....D	.15	.20	Elemi Gum, 89 lb cases.....D	.10	.11	<b>Helonia Root, (unicorn false)</b>		
Pulp, USP, bales.....D	.55	.57	Elm, select, 5 lb bundles cases..D	.25	.27	bags.....D	...	.68
Coltsfoot Leaves, bags.....D	.06	.07	Grinding, bags.....D	.10	.12	Hemp Seed, Manchurian bags....D	.03½	.04
Comfrey Root, bags.....D	.13	.14	Powdered, bbls.....D	.15	.16	Chilian, bags.....D	...	...
Condurango Bark, bales.....D	.14	.15	<b>ERGOT, 150-200 lb bags.....D</b>	.52	.55	Henbane Leaves, bales, U.S.P....D	.40	.45
Continum Seeds, bags.....D	...	.16	Eucalyptus Leaves, bales.....D	...	.05	No assay.....D	.34	.36
Copaiba Balsam Para, see Balsams			Euphorbia Pilulifera Herb, bags..D	...	.20	Henna Leaves, bales.....D	.16	.18
Copal Gum.....D	.12	.15	Euphorbium Gum, cases.....D	...	.35	Powdered.....D	.22	.23
Coriander Seed, Bombay bags....D	.10	.11	Powdered, boxes.....D	...	.40	Honey, Calif., 120 lb cases.....D	.10	.10½
Morocco, bags.....D	.11	.12	Fennel Seed, French bags.....D	.16½	.17	Hops, N. Y. prime bales.....D	.18	.20
Bleached, bags.....D	.13½	.14	German, bags.....D	.21	.22	Pacific Coast prime bales.....D	.16	.18
Corn Silk, bales.....D	.05	.05½	Flax Seed, whole 180 lb bbls.....ea	...	12.25	Horhound Herb, bales.....D	...	.11
Cotton Root Bark, bales.....D	...	.15	Ground, 180 lb bbls.....D	.06½	.07	Horsetail Rush, bags.....D	...	.16
Cramp Bark, so-called bales.....D	...	.08	Foenugreek Seed, 200 lb bags..D	...	.08	India Gum, see Karaya		
True, bags.....D	...	.40	Fish Berries, 100-125 lb bags....D	.03½	.04	<b>INSECT FLOWERS, open whole</b>		
Cranesbill Root, bags.....D	.10	.11	Fringe Tree Bark, bags.....D	.17	.18	bales.....D	...	...
<b>CUBE BERRIES, XX bags.....D</b>	.82½	.85	<b>GALANGAL ROOT, bags.....D</b>	.08	.09	Closed whole, bales.....D	...	...
Powdered, boxes.....D	...	.85	Gambier Gum, bags.....D	.11½	.12	Powdered, pure 200 lb bbls..D	.70	.75
Culvers Root, bags.....D	.28	.30	Galbanum Gum, cans.....D	1.20	1.35	<b>Flowers and stems, 50 p. c.</b>		
Cumin Seed, Levant bags.....D	...	...	Gamboge Gum, 160 lb cases.....D	1.08	1.20	200 lb bbls.....D	.42	.43
Morocco, bags.....D	.28	.30	Gelsemium Root, bags.....D	.11	.11½	Ipecac Root, Cartagena, bags....D	...	1.90
Cuttlefish Bone, Trieste, straps..D	.17	.19	Gentian Root, bags.....D	.09	.09½	Powdered, 200 lb bbls. boxes..D	...	2.00
Jewelry, large, straps.....D	...	.55	Ginger, African, bags.....D	.15½	.16	Rio Whole, bags.....D	...	1.90
Small, straps.....D	...	.35	Jamaica, grinding, bags bbls..D	.35	.42	Powdered, 200 lb bbls. boxes..D	...	2.00
French, straps.....D	.17	.19	Japan, bags.....D	...	.15½	Istinglass, American, 130 lb cs..D	.65	.70
Powdered, boxes.....D	...	.13	Cochin. ABC & Lemon, bags..D	.15½	.16	Russian, (Beluga) lvs etc.....D	...	10.00
Broken, boxes.....D	.07	.08	Ginseng Root, cultivated, bags..D	8.00	10.00	<b>JABORANDI LEAVES, bales....D</b>	.22	.23
Damar Gum, 136 lb cases.....D	.32	.34	Northwestern Wild, bags.....D	14.00	15.00	Jalap Root, whole 150 lb bags..D	.35	.40
Damiana Leaves, bales.....D	.11	.12	Southern Wild, bags.....D	10.00	12.00	Powdered, USP 250 lb bbls..D	.40	.42
Dandelion Root, Imp., bags.....D	.14	.15	Golden Seal Root, bags.....D	3.20	3.25	Japan Wax, 224 lb cases.....D	.14½	.15
Deer Tongue Leaves, bales.....D	.07½	.08	Powdered, boxes.....D	3.55	3.65	Job's Tears, white bags.....D	.08	.09
Digitalis Leaves, bales.....D	.08½	.08	Grains of Paradise, bags.....D	.12	.14	Juniper Berries, 125 lb bags....D	.03	.03½
Dill Seed, bags.....D	.09½	.10				<b>KAMALA, boxes.....D</b>	2.75	3.00

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LADY SLIPPER ROOT, bags... lb	.50	.52	Musk, pods Cabardine, tins... oz	16.00	17.00	Patchouli Leaves, bales... lb	.22	.25
Larkspur Seed, bags... lb	.39	.41	Tonquin... oz	22.00	25.00	Pepper, black Sing. bags... lb	.10 1/4	.11
Laurel Leaves, bales... lb	.04 1/4	.05	Grain Cab... oz	25.00	26.00	White, bags... lb	.14	.14 1/4
Lavender Flowers, Ordinary... lb	.25	.32	Tonquin... oz	35.00	38.00	Peppers, red Mombasa bags... lb	.28	.29
Selected... lb	.35	.37	Synthetic, see Chemicals			Cherries, bags... lb	.16 1/4	.17
Leechom, tube... Per 100	7.00	7.50	Musk Root, Russian bags... lb			Bombay, bags... lb	.14 1/4	.15
Lemon Peel, bags... lb	.09	.10	Mustard Seed, Bari brown bags... lb	.08 1/4	.09	Japan, bags... lb	.28	.30
Licorice Root, Russian whole... lb	.09	.08 1/2	Bombay, brown... lb	.07	.08	Pennyroyal Herb, bales... lb	.08	.12
Spanish, natural bales... lb	.09	.09 1/2	California, brown... lb	.09	.09 1/2	Peppermint Leaves, imp. bales... lb	.27	.35
Powdered, bbls... lb	.10	.11	Yellow... lb	.09		Domestic leaf... lb	.27	.29
Selected, 2 & 5 lb bundles... lb	.17 1/4	.20	Chinese, yellow... lb	.04	.04 1/4	Peru Balsam, see Balsams		
Cuttings, 125 lb bags... lb	.07 1/4	.08	English, yellow... lb	.08 1/4	.09	Pichl Leaves, bags... lb	.23	.25
Life Everlasting Herbs, bales... lb	.05	.06	Dutch, yellow... lb	.09	.09 1/4	Pimento, select bags... lb	.04 1/4	.04 1/2
Lime Juice, clarified bbls... gal	.50	.60	Danish, yellow... lb	.08 1/4	.09	Pink Root, true bags... lb	.04 1/4	1.20
Linden Flowers, with leaves, bales lb	.22	.23	Myrrh Gum, select 200 lb cs... lb	.40	.45	Pitch, Burgundy, see Burgundy Pitch		
Without Leaves, bales... lb	.38	.40	Sorts, cases... lb	.38	.40	Pleurisy Root, bags... lb	.22	.22
Liverwort Leaves, bales... lb	.30	.32	NUTGALLS, Chinese bags... lb	.15	.16	Plantain Leaves, bales... lb	.15	.15
Lobelia Herb, bales... lb	.15	.15	Aleppy, bags... lb	.14	.15	Poke Berries, bags... lb	.15	.15
Lobelia Seed, bags... lb	.55	.60	Nutmegs, 110s cases... lb	.24	.25	Poke Root, bags... lb	.07	.07
Lovage Root, Imported, bags... lb	.25	.25	75s, 80s cases... lb	.26	.27	Pomegranate Bark, of root bags lb	.30	.30
Lupulin, boxes... lb	1.40	1.50	Nux Vomica Buttons, bags... lb	.06 1/4	.07	Of Fruit, bags... lb	.30	.30
Domestic... lb	1.30	1.40	Powdered, 200 lb bbls... lb	.11	.11 1/4	Of tree... lb	.30	.30
Lycopodium, 88 lb cs... lb	.40	.45	OAK BARK, red bags... lb	.05	.06	Poppy Flowers, red bags... lb	.35	.35
MACE, Siam, No. 1 cases... lb	.44	.45	White, bags... lb	.05	.06	Poppy Seed, Dutch, bags... lb	.12 1/4	.13
Banda, No. 1 cases... lb	.46	.47	English, yellow... lb	.10	.11	German, bags... lb	.11 1/4	.12
Batavia, cases... lb	.38	.39	Olibanum Gum, sift 280 lb cases lb	.13	.14	Turkish, bags... lb	.06	.06 1/4
Malva Flowers, blue bales... lb	.35	.38	Tears, 280 lb cases... lb	.21	.22	Blue Indian, bags... lb	.08	.08 1/4
Black, bales... lb	.65	.75	No. 1, all white, 280 lb cases lb	.21	.22	White Indian, bags... lb	.07	.07 1/4
Manna, large flake cases... lb	.58	.60	Opium, gum USP cases... lb	.675	.675	Prickly Ash Bark Southern, bags lb	.14	.14 1/4
Small flake, cases... lb	.33	.34	Granular, cans... lb	.775	.775	Northern, bags... lb	.14	.14 1/4
Sorts, cases... lb	.30	.32	Powdered, USP cans... lb	.775	.775	Prickly Ash Berries, bags... lb	.11	.13
Mandrake Root, bags... lb	.18	.18	Orange Flowers, cases... lb	1.00	1.00	Princes' Pine, bales... lb	.14	.15
Mastic Gum, 120 lb cases... lb	.45	.48	Orange Peel, bitter bags... lb	.06 1/4	.07	Pulsatilla Herb, bags... lb	.37	.40
Mecreton Bark, bags... lb	.11	.12	Sweet, bags... lb	.07	.08	Pumpkin Seed, bags... lb	.09	.12
Matco Leaves, bales... lb	.18	.20	Orris Root Florentine bold bags lb	.07	.08	QUASSIA CHIPS, bags... lb	.07 1/4	.08
Marjoram Leaves, German bales... lb	.17	.18	Verona, bags... lb	.05	.08	Queen of the Meadow Herb, bags lb	.00	.00
French, bales... lb	.15	.15 1/4	Powdered, 200 lb bbls... lb	.08	.09	Quince Seed, bags... lb	1.35	1.40
Millet Seed, dom. yellow bags... lb	.03 1/4	.05	Fingers, cases... lb	.65	.70	RAPE SEED, South Amer. bags... lb	.07	.07 1/4
Montan, Wax, crude bags... lb	.04	.04 1/4	Ozokerite Wax, brown hard bags lb	.22	.24	Dutch, bags... lb	.08	.08 1/4
Bleached... lb	.04	.04 1/4	Green, hard bags... lb	.25	.26	Japanese, small, bags... lb	.06 1/4	.06 1/4
Moss, Iceland bales... lb	.08	.09	Refined, yellow bags... lb	.17	.24	Raspberries, dried boxes... lb	.35	.40
Irish, bleached bales... lb	.07	.09	PAPRIKA, bags... lb	.27	.37	Red Saunders... lb	.17	.19
Mullein Flowers, tins... lb	1.25	1.25	Hungarian... lb	.19	.20	Rhatany Root, bags... lb	.10	.10
			Pareira Brava Root, bags... lb	.19	.20	RHUBARB, H. D. cases... lb	.40	.42
			Parsley Seed, bags... lb	.08 1/4	.09	Powdered, 200 lb bbls... lb	.45	.48
						Rosemary Leaves, bales... lb	.04	.05

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Rosemary Flowers, cases bales...D	.28	: .30	Snake Root, Canada natural bags, D	.32	: .33	Tragacanth Gum, No. 1, ribbon,		
Rose Petals, pale .....	.22	: .25	Stidipped, bags .....	...	: .55	200 lb cs. ....	1.70	: 1.75
Red .....	...	: .60	SOAP BARK, whole, 150-200 lb			No. 2 to No. 6, cases.....D	1.00	: 1.50
Rue Herb, bales.....D	.30	: .35	bales .....	.07½	: .08	Powdered, 50 lb boxes.....D	1.00	: 1.50
SABADILLA SEED, bags.....D	...	: .12	Cut, 125-175 lb bags.....D	.08	: .08½	Turkish, cases.....D	.75	: .90
Powder, bbls.....D	.16½	: .17	Crushed, 200 lb bbls.....D	.08½	: .09	Turmeric Root, Madras bags.....D	.09½	: .09½
Saffron Flowers, Amer. bales.....D	1.30	: 1.35	Powdered, 200 lb bbls.....D	.13	: .14	Aleppy, bags .....	.07½	: .08
Valencia, 1 lb cans.....D	47.00	: 48.00	Spearmint Leaves, American bales. D	.23	: .24	China, bags .....	.07	: .07½
Sage, Dalmatian bales.....D	.05½	: .06½	Spermaceti, blocks cakes cases...D	.36	: .37	Turpentine, Venice, true 80 lb cs..D	.20	: .22
Greek, bales .....	.03½	: .04	Spikenard Root, bags.....D	.15	: .16	Artificial, 80 lb cases.....D	.14	: .15
Spanish, bales .....	.03	: .03½	Spruce Gum, boxes.....D	1.00	: 1.50	Spirits, see Naval Stores		
Sandalwood, chips bags.....D	...	: .30	Squaw Vine, bales.....D	...	: .17	UNICORN ROOT, false, see Helonias		
Ground, bags .....	...	: .35	Squill Root, white bags.....D	...	: .04	True, see Aletris		
Sandarac Gum, 300 lb bbls.....D	.23	: .25	Stavesacre Seed, bags.....D	.28	: .29	Uva Ursi Leaves, bales.....D	.05½	: .06½
Sarsaparilla, Honduras, bales.....D	...	: .55	Stillingia Root, bags.....D	.09½	: .10	VALERIAN ROOT, Belgian bags. D	.12	: .13
Mexican, bales .....	.28	: .30	Stone Root, bags.....D	.09	: .10	Vanilla Beans Mex. whole cases. D	7.50	: 10.00
Sassafras Bark, ordinary bales...D	.12	: .14	Storax, liquid artif.....D	.70	: .75	Cuts cases .....	6.50	: 7.00
Select, bales .....	.22	: .28	Gen. UET .....	.90	: 1.00	Bourbon, cases .....	3.00	: 3.25
Savory Leaves, bales.....D	.09½	: .10	St. Ignatius Beans, bags.....D	.22	: .23	South American, cases.....D	6.00	: 6.50
Saw Palmetto Berries, bags.....D	.12	: .13	St. John's Bread, bags.....D	.04	: .08	Tahiti, yellow label cases.....D	1.80	: 2.00
Scammony Root, boxes.....D	.95	: 1.00	Stramonium Leaves, bales.....D	.06½	: .07	Green Label cases.....D	1.80	: 2.00
Scammony Root, bags.....D	.06	: .07	Stramonium Seed, bags.....D	.12	: .13	Violet Flowers, bags.....D	.65	: .70
Senna, Alex, 150 lb cases.....D	.30	: .31	Strophanthus Seed, Hispidus.....D	...	: .35	Wahoo Bark, of root bags.....D	1.00	: 1.10
Half Leaf, 350 lb bales.....D	.14	: .17	Kombe, bags .....	.30	: .35	Of Tree, bags.....D	.40	: .42
Siftings, 400 lb bales.....D	.09	: .09½	Sunflower Seed, domestic bags.....D	.07	: .07½	White Pine Bark, roseed, bags...D	.08	: .07
Powdered, 200 lb bbls.....D	.12	: .13	South American, bags.....D	.06½	: .07	White Poplar Bark, bags.....D	.04	: .05
Turnevally, job, 350 lb bales. D	.11	: .13	TAGALDER BARK, bags.....D	...	: .05	Wild Cherry Bark, thin green		
Grinding, 350 lb bales.....D	.05	: .08	Tamarinds, bbls.....D	...	: .05½	Roseed, bales .....	.10	: .12
Powdered, 200 lb bbls.....D	.08	: .08½	Keps .....	3.25	: 3.50	Thick Roseed, bales.....D	.07	: .07½
Pods, 350 lb bales.....D	.06	: .06½	Tansy Herb, bales.....D	.14	: .15	Thin Natural, bales.....D	.09	: .09½
Serpentaria Root, bags.....D	.90	: .92	Tar, Barbados, 50 gal. bbls. gal.	1.60	: 1.75	Thick Natural, bales.....D	.04½	: .05
Shellac, T.N., bags.....D	.78	: .80	Thus Gum, 280 lb bbls.....D	...	: .05½	Willow, bark bags.....D	...	: .06
Superfine Orange, bags.....D	.89	: .90	Thyme, Spanish bales.....D	...	: .09	White, bags .....	...	: .15
V. S. O., cases.....D	...	: 1.00	French, bales .....	...	: .11	Witch Hazel Bark, bags.....D	...	: .06
Pwd. reg., 350 lb bbls.....D	.88	: .90	Tilia. See Linden			Witch Hazel Leaves, bales.....D	...	: .07½
Regular Bleached, 350 lb bbls. D	...	: .90	Tolu Balsam, see Balsams			Worm Seed, American bags.....D	.08½	: .09
Bone, Dry, 350 lb bbls.....D	...	: .92	Tonga Bark, bags.....D	.30	: .31	Levant bags .....	3.75	: 4.00
Simaruba Bark, bales.....D	.11	: .13	Tonka Beans, Angostura cases...D	2.10	: 2.25	Wormwood Herb, imported bales. D	...	: .09
Sideritis Herb, cut bags.....D	...	: .22	Para, cases .....	.80	: .85	Yacca Gum, red.....D	.04	: .04½
Skullcap Leaves, bales.....D	...	: .28	Surinam, cases .....	.85	: .95	Ground .....	.05½	: .06½
Sloe Berries, bags.....D	.93	: .94				YELLOW DOCK ROOT, bags.....D	.13	: .15

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Sweet, 5 lb. cans.	35	40
Peach Kernel, 5 lb. tins.	25	37
Apricot, see Peach Kernel		
Amber, crude 25 lb. tins.	65	68
Rectified, 25 lb. tins.	90	1.00
Angelica Root, 1 lb. bot.	38.00	39.00
Seed, 1 lb. bot.	38.00	38.00
ANISE, Tech., 6 lb. case.	45	50
USP 50 lb. tins.	52 1/4	55
Bay, 25 lb. tins.	2.45	2.55
Bergamot, USP, 25 lb. coppers.	2.60	2.75
Artificial, 25 lb. cans.	2.00	2.25
Birch Tar, rect. 5 lb. bot.	1.10	1.15
Crude, 50 lb. tins.	60	65
Bois de Rose, 25 lb. tins.	2.30	2.50
Cade, USP, 25 lb. tins.	45	50
USP, 5 lb. bot.	55	60
Cajuput, native, 50 lb. tins.	80	85
Calamus, 5 lb. bot.	4.25	4.75
Camphor, heavy, 1000 lb. drums.	11 1/4	12
Japanese, white, 72 lb. cases.	13 1/4	15
White, 1000 lb. drums.	13	13 1/4
Cananga, Native 25 lb. tins.	2.25	2.50
Rectified, 25 lb. tins.	2.50	2.75
Caraway, USP	5.25	6.00
Cardamom, USP, 1 lb. bot.	20.00	22.00
Carrot, 5 lb. bot.	8.50	9.00
CASSIA, 75-80 p.c. 66 lb. cases.	1.80	1.95
Redistilled, USP, 50 lb. cans.	2.25	2.30
Cedar Leaf, 50 lb. tins.	85	1.00
Cedar Wood, light 1000 lb. drums.	25	26
Celery, 1 lb. bot.	8.50	9.00
Cinnamon, Ceylon 1 lb. bot.	12.00	15.00
Leaf, 5 lb. bot.		2.00
CITRONELLA, Ceylon, 1000 lb. drs.	70	72
Rectified, 25 lb. tins.	72	74
Java, 400 lb. drums.		85
50 lb. tins.		87 1/4
Cloves, USP, 50 lb. cans.	1.80	1.90
6 lb. bot.	1.90	2.00

Copaiba, USP, 50 lb. tins.	35	40
Coriander, USP, 1 lb. bot.	20.00	21.50
Croton, USP, 25 lb. tins.	1.00	1.10
Cubeba, USP, 5 lb. bot.	6.00	6.25
Cumin, 1 lb. bot.	12.50	15.00
Dill, 1 lb. bot.	4.75	5.00
Erigeron, 20 lb. tins.	85	90
EUCALYPTUS, Austral. USP		
56 lb. cs.	46	48 1/4
500 lb. drums		46
Fennel USP, 25 lb. tins.	1.10	1.25
Geranium, Algerian, 25 lb. tins.	8.00	8.50
Bourbon, 25 lb. tins.	6.50	6.75
Turkish, 25 lb. tins.		4.50
Ginger, 1 lb. bot.	5.75	6.00
Gingergrass, 25 lb. tins.	2.75	3.00
Hemlock, 50 lb. cans.		1.55
Juniper Berries, USP 25 lb. tins.	1.15	1.30
Wood, 50 lb. tins.	50	60
Lavender, USP, 25 lb. tins.	2.75	3.50
Spike, Spanish 50 lb. cans.	70	80
LEMON, Ital. USP, 25 lb. tins.	75	85
American, USP, 25 lb. tins.	80	85
Lemongrass, native, 50 lb. cans.	85	90
Limes, express 25 lb. tins.	1.75	1.80
Distilled, 25 lb. tins.	65	70
Linaloe, Mex. 80 lb. cases.	2.15	2.35
Mace, distilled 50 lb. tins.		90
Mirbane, ref., see Ar. Chemicals		
Mustard, USP, 1 lb. bot.		17.00
Artif., USP, 5 lb. bot.	2.75	2.80
Neroli, Bigarade, 1/4 and 1 lb. bot.	75.00	100.00
Petals, 1 lb. bot.	90.00	115.00
Artificial, 1 lb. bot.	10.00	25.00
Nutmeg, USP, 25 lb. tins.		90
Orange, bitter, 25 lb. tins.	2.25	2.35
Sweet, W. Ind., 25 lb. tins.	2.60	2.75
Italian, 25 lb. cop.	2.80	2.90
American, 25 lb. tins.	2.85	2.95
Origanum, 50 lb. cans.		35
Parsley, 1 lb. bot.	3.50	4.00
Patchouli, 5 lb. bot.	8.00	8.50
Peppercorn, dom 25 lb. tins.	1.95	2.25
Imported, 25 lb. tins.	1.65	1.75
PEPPERMINT, nat. 60 lb. cases.	2.75	2.85
Redist., USP, 60 lb. cases.	3.00	3.10

Petit Grain, S. Am. 25 lb. tins.	1.60	1.70
French, 1 lb. bot.	6.50	7.00
Pimento, 25 lb. tins.	1.85	1.90
Pinus Sylvestris, 25 lb. tins.		1.75
Pumilio, USP 25 lb. tins.		2.75
Rose, Fr., 8, 16 & 32 oz. pkgs.		9.00
Bulg., 8, 16 & 32 oz. pkgs.	5.50	6.00
Artificial, 1 lb. bot.	2.00	3.00
Rosemary, USP, 27 1/2 lb. tins.	45	48 1/4
1000 lb. drums		42 1/4
Tech., 27 1/2 lb. tins.		45
Rue, 1 lb. bot.		4.25
Sandalwood, E. Ind. USP, 76 lb. cases	7.85	8.00
W. Indian, (Amyris) 25 lb. tins.	3.75	3.90
Sassafras, USP, 50 lb. cans.	95	1.00
Artificial, 63 lb. cans, 1000 lb. drs.	42	45
Savin, 5 lb. tins.	3.25	3.50
Spearmint, USP 60 lb. cases.	2.40	2.50
Spruce, 50 lb. tins.		1.55
Tansy Amer., 20 lb. tins.	7.50	8.00
Tar, 50 gal. bbls.	24	25
Refined, USP 25 lb. tins.		
Thyme, red, USP 25 lb. tins.	1.00	1.10
White, USP 25 lb. tins.	1.10	1.15
Crude, 110 lb. drums.	85	90
Vetiver, Bourbon 1 lb. bot.	5.50	6.00
Wine, heavy 1 lb. bot.	25.00	24.00
Wine, light 1 lb. bot.		2.75
WINTERGREEN.		
Sweet bch, 25 lb. tins.	2.00	3.00
Gaultheria, true 25 lb. tins.	4.00	7.00
Synthetic, USP, 50 lb. cases.		57
Wormseed Bait, USP, 25 lb. tins.	4.25	4.35
Wormwood, dom., 25 lb. tins.	6.50	7.00
Ylang Ylang, Bourbon 10 lb. tins.	6.50	7.00
Manila, 1 lb. bot.	30.00	40.00
Artificial, 1 lb. bot.	10.00	12.00
OLEORESINS		
Aspidium, USP 1 lb. bot.	2.75	3.00
Capicum, USP, 5 lb. bot.	2.25	2.50
Cubeb, USP, 1 lb. bot.	4.75	5.00
Ginger, 5 lb. bot.	3.00	3.10
Malefern, See Aspidium		
Oris, 1 lb. bot.		18.00
Pepper, black, USP, 1 lb. bot.	3.50	4.00
Vanilla, 1 lb. bot.	9.00	9.50

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## NATURAL DERIVATIVES

Anethol, 2 lb bot.....	D	1.60	: 2.00
Borneol, 1 lb bot.....	D	...	: 3.50
Citronellal, 1 lb bot.....	D	2.00	: 2.25
CITRAL, 25 lb cans.....	D	2.75	: 3.00
EUCALYPTOL, USP, 25 lb cans..	D	.80	: .85
Eugenol, USP, 25 lb cans.....	D	2.85	: 3.25
Geraniol, Domestic, 50 lb cans..	D	2.75	: 3.00
Imported, 5 lb bot.....	D	2.75	: 3.00
Iso-Eugenol, 1 lb bot.....	D	4.25	: 4.50
Imported.....	D	6.50	: 7.00
Linalool, 5 lb bot.....	D	7.00	: 7.25
MENTHOL, 60 lb cases.....	D	...	: 8.20
Less cases, 5 lb cans.....	D	8.40	: 8.50
Rhodinol, 1 lb bot.....	D	15.00	: 20.00
SAFROL, 60 lb cans.....	D	.55	: .60
Thymol, USP, 10 lb cans.....	D	3.25	: 3.50

## SYNTHETIC AROMATICS

Acetaldehyde, 50% sol pure, 5 lb bot..	D	1.75	: 2.00
Acetophenone CP, 1 lb bot.....	D	4.00	: 4.25
Amyl Acetate, pure, 5 gal cans.gal	D	6.00	: 7.00
Amyl Butyrate, 1 lb bot.....	D	2.00	: 2.10
Amyl Formate, 1 lb bot.....	D	1.75	: 2.00
AMYL SALICYLATE, 100 lb chys..	D	1.45	: 1.60
Anisic Aldehyde, 1 lb bot.....	D	3.40	: 4.00
BENZALDEHYDE, USP, 40 lb chys..	D	1.40	: 1.50
FFC, 40 lb chys.....	D	1.60	: 1.70
Benzoic Ether, See Ethyl Benzoate			
Benzyl Acetate, 100 lb chys.....	D	1.25	: 1.40
Benzyl Alcohol, 5 lb bot.....	D	1.50	: 1.75
BENZYL BENZOATE, 5 lb bot.....	D	1.50	: 1.60
Medicinal FFC.....	D	1.65	: 1.75
Benzyl Formate, 1 lb bot.....	D	2.50	: 3.00
Bromistrol, 25 lb kegs.....	D	4.00	: 4.25
Butyric Ether, See Ethyl Butyrate			
Cinnamic Acid, 5 lb cans.....	D	3.00	: 3.25

Cinnamic Alcohol, liquid 1 lb bot..	D	10.00	: 12.00
Crystallizable.....	D	12.00	: 15.00
Cinnamic Aldehyde, 1 lb bot.....	D	3.20	: 3.50
CITRONELLOL, 1 lb bot.....	D	8.00	: 14.00
COUMARIN, 25 lb cans.....	D	4.50	: 4.75
DIETHYL PHTHALATE, 25 lb cans..	D	.65	: .75
Diphenyl oxide, 25 lb tins.....	D	.85	: .90
Ethyl Acetate, pure, 5 lb bot.....	D	.45	: .50
Ethyl Benzoate, 5 lb bot.....	D	1.85	: 2.00
Ethyl Butyrate, 5 lb bot.....	D	2.00	: 2.25
Ethyl Cinnamate, 1 lb bot.....	D	4.50	: 5.00
Ethyl Formate, 5 lb bot.....	D	.95	: 1.00
Ethyl Valerate, 5 lb bot.....	D	4.50	: 4.75
Formic Ether, See Ethyl Formate			
Geranyl Acetate, 1 lb bot.....	D	4.25	: 4.75
Hellotropin, dom., 10 lb bot.....	D	1.75	: 2.00
Imported.....	D	1.75	: 2.75
Indol, CP, 1 oz bot.....	os	8.50	: 9.00
Ionone, 1 lb bot.....	D	5.00	: 9.00
Alpha.....	D	10.00	: 12.00
Beta.....	D	9.00	: 11.00
Methyl.....	D	12.50	: 15.00
Linalyl Acetate, 1 lb bot.....	D	7.00	: 10.00
Linalyl Benzoate, 1 lb bot.....	D	13.00	: 14.00
METHYL ANTHRANILATE dom.,			
1 lb bot.....	D	2.25	: 2.50
Imported.....	D	3.00	: 3.50
Methyl Cinnamate, 1 lb bot.....	D	4.00	: 4.50
Methyl Pagarosol, 1 lb bot.....	D	8.00	: 9.00
METHYL SALICYLATE, USP 500 lb			
drums.....	D	...	: .55
50 lb cases.....	D	...	: .57
Second Hands.....	D	...	: .51
Mirbane, rect. 1000 lb drums.....	D	.12 1/2	: .14
Musk Ambrette, 1 lb cans.....	D	14.50	: 16.50
Musk Ketone, 1 lb cans.....	D	13.00	: 14.00
Musk Xylene, 5 lb cans.....	D	2.75	: 3.00
Nerolin, 1 lb cans.....	D	1.75	: 2.00
Phenylacetaldehyde, 85 p.e. 1 lb bot..	D	9.00	: 12.50
50 p.e.....	D	6.00	: 8.00
Phenylacetic Acid, 1 lb bot.....	D	3.00	: 4.00
PHENYLETHYLALCOHOL dom.,			
1 lb bot.....	D	7.50	: 9.00
Imported.....	D	9.50	: 12.00

Phenylpropylalcohol, 1 lb bot....	D	15.00	: 16.00
TERPINEOL, CP, 1000 lb drums..	D	.53	: .55
Cans 50 lb.....	D	.58	: .60
Imported, 25 lb cans.....	D	1.00	: 1.25
Terpinyl Acetate, 25 lb cans.....	D	1.65	: 1.85
VANILLIN, USP, 400 oz cans.....	os	.41	: .41 1/2
Cans, 16 oz, 80 oz.....	os	.41 1/2	: .42 1/2
Valerianic Ether, See Ethyl Valerate			
Yara Yara, 1 lb cans.....	D	2.00	: 2.50

## PERFUMERS' SUNDRIES

Almond Meal, 25 lb cans.....	D	.28	: .30
Ambergris, black, bxs.....	os	...	: 8.00
Ambergris, gray, bxs.....	os	...	: 28.00
Balsam Copaliba, Para, 80 lb cases..	D	.28	: .29
South American, 80 lb cases.....	D	.28	: .29
Balsam Peru, 60 lb cans.....	D	2.00	: 2.10
Balsam Tolu, 90 lb cases.....	D	.80	: .85
Benzoin Gum, Siam, bxs.....	D	1.00	: 1.10
Castoreum, 1 lb bot.....	D	4.00	: 4.50
Chalk, precip. light, 175 lb bbls..	D	.04 1/2	: .05
Cherry Laurel Water, 5 gal cans.gal	D	1.15	: 1.35
Civet Abyssin, horns.....	os	2.75	: 3.75
Labdanum, 5 lb bot.....	D	...	: 8.00
Lanolin hydrous, 350 lb bbls.....	D	.21	: .22
Anhydrous, 350 lb bbls.....	D	.23	: .24
Musk pods, Cabardine, tins.....	os	16.00	: 17.00
Tonquin, tins.....	os	22.00	: 25.00
Grains, Cabardine, tins.....	os	25.00	: 26.00
Tonquin, tins.....	os	35.00	: 38.00
Synthetic, See Aromatic Chemicals			
Orris Rt. Flor., powd. bbls.....	D	.09	: .11
Verona, bbls.....	D	.08	: .09
Petrolatum, snow white, 350 lb bbls..	D	...	: .12 1/2
Light Amber, 350 lb bbls.....	D	.04	: .04 1/2
Rice Starch, 140 lb bgs.....	D	.09	: .10
Rose Water, 5 gal chys.....	gal	.90	: 1.10
Sandalwood chips, powd., bags.....	D	.50	: .55
Saponin, 5 lb tins.....	D	1.25	: 1.50
Talc Italian, 220 lb bgs.....	ton	42.00	: 55.00
Talc French, 220 lb bags.....	ton	32.00	: 45.00
Talc, domestic ref., 100 lb bags.....	ton	20.00	: 30.00



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# Imports of Chemicals, Dyestuffs, Drugs, etc.

Imports at New York, March 10 to March 17

**ACIDS**—8 drs., Fidanque Bros., Panama; Cresylic, 12 drs., W. E. Jordan Bros., Liverpool; 1 drum, Order, Liverpool; 30 drs., Shpg. & Coal Co., Rotterdam; **Stearic**, 20 cs., Parson & Plymouth, Rotterdam; **Tartaric**, 200 csks., Hans Hinrichs Chem. Co., Rotterdam.

**ALCOES**—7 cs., Order, Aden; 89 cs., Order, La Guayra; 44 cs., R. Desvernine, Curacao.

**ALUMINUM—Hydrate**, 500 bgs., R. W. Greeff & Co., Rotterdam; **Sulfate**, 61 csks., R. W. Greeff & Co., Rotterdam; 77 csks., A. Klipstein & Co., Rotterdam; 150 csks., Meteor Prod. Co., Rotterdam.

**AMMONIUM—Alum**, 33 bbls., Superfos Co., Hamburg; **Carbonate**, 10 csks., F. Boehm, Hamburg; **Sulfate**, 400 bgs., Order, Halifax.

**ARGOLS**—1 bg., Atriken Chem. Works, Bordeaux; 456 bgs., Royal Baking Powder Co., Buenos Aires.

**ARSENIC**—81 csks., J. D. Lewis, Rotterdam; 33 csks., Order, Bordeaux; 11 drs., Order, Antwerp.

**BARK**—1,230 csks., Bank of Brit. W. A. Majunga; 3,594 csks., Order, Majunga; **Quilina**, 83 bls., W. R. Grace & Co., Talcahuana.

**BARIUM—Carbonate**, 750 bgs., H. Kastor, Rotterdam.

**BENZYL—Benzoate**, 20 drs., A. D. Strauss & Co., Hamburg.

**CAMPBOR**—140 cs., Eastman Kodak Co., Shanghai.

**CASEIN**—56 bgs., C. D. Stone & Co., Bordeaux; 599 bgs., Martin Cantine & Co., Bordeaux; 117 bgs., Order, Bordeaux; 500 bgs., Order, Hamburg; 417 bgs., Brown Bros. & Co., Buenos Aires; 200 bgs., N. Y. Trust Co., Rotterdam; 224 bgs., N. Y. Trust Co., Havre; 169 bbls., Manhattan Co., Hamburg.

**CHALK**—482,000 kilos, Taintor Trdg. Co., Havre; 40 cs., Cohn Bros., Hamburg; 40 cs., Anderson Hillier & Co., Manchester; 685 bgs., Bankers Trust Co., Antwerp; 600 bgs., Irving Nat. Bank, Antwerp.

**CHEMICALS**—50 bbls., Order, Marseilles; 100 csks., Pomeroy & Fischer, Marseilles; 19 drs., A. Penchot, Inc., London; 112 bbls., Roessler & Hasslacher Chem. Co., Rotterdam; 258 csks., Hummel & Robinson, Rotterdam; 140 csks., Order, Bremen; 190 csks., Roessler & Hasslacher Chem. Co., Rotterdam; 176 csks., Hummel & Robinson, Rotterdam; 100 csks., Amer. Exch. Nat. Bank, Rotterdam; 51 csks., A. Klipstein & Co., Rotterdam; 100 drs., A. Klipstein & Co., Hamburg; 19 bbls., Amer. Exch. Co., Hamburg; 60 bbls., Weisenthal & Co., Hamburg; 221 bbls., Roessler & Hasslacher Chem. Co., Hamburg; 50 drs., Order, Hamburg; 109 drs., Jungmann & Co., Hamburg.

**CLAY**—30 csks., J. Goebel & Co., Bremen.

**CINCHONIDINE**—10 cs., R. W. Greeff & Co., Rotterdam.

**COLORS**—6 csks., Franklin Imp. & Exp. Co., Hamburg; 3 csks., Kuttroff Pickhardt & Co., Hamburg; 48 csks., Ciba Co., Hamburg; 30 cs., H. Kohnstamm, Hamburg; 3 cs., B. F. Drakenfeld & Co., Havre; 5 csks., H. A. Metz, Bremen; 5 cs., Ladenburg Thalmann & Co., Genoa; 7 bbls., 1 cse., Irving Nat. Bank, Genoa; 32 csks., Kuttroff Pickhardt & Co., Rotterdam; 29 csks., Grasselli Chem. Co., Rotterdam; 19 csks., Bank of Manhattan, Rotterdam; 26 csks., Garfield Aniline Works, Rotterdam; 5 csks., Grasselli Chem. Co., Rotterdam; 9 csks., Bank of Manhattan, Rotterdam; 17 csks., Garfield Aniline Works, Rotterdam; 3 csks., Bachmeir & Co., Rotterdam; **Alizarin**, 1 cse., Fidelity Internatl. Trust Co., Genoa; **Bronze**, 10 cs., Standard Bronze Co., Bremen.

**BRONZE POWDER**—19 cs., L. Uhlfelder & Co., Bremen; 14 cs., B. F. Drakenfeld & Co., Bremen; **Earth**, 37 bbls., Amer. Exch. Nat. Bank, Hamburg.

**COPPER—Sulfate**, 400 csks., Nitrate Agencies, Liverpool; 200 bbls., Philipp Bros., Genoa.

**COPRA**—55 bgs., Franklin Baker Co., Port Antonio; 29 bgs., Franklin Baker Co., Jamaica; 59 bgs., Franklin Baker Co., Port Antonio.

**CREAM TARTAR**—39 csks., W. Schall & Co., Hamburg; 100 csks., Brown Bros. & Co., Marseilles; 105 pkgs., Superfos Co., Rotterdam.

**CUBEBS**—23 bgs., A. A. Stillwell & Co., Rotterdam.

**CUTTLEFISH BONE**—50 bbls., Order, Bordeaux.



**DEXTRINE**—100 bgs., Spier Simmons & Co., Rotterdam.

**DIVI DIVI**—847 bgs., Suzarte & Whitney, Maracaibo.

**EPSOM SALTS**—460 bgs., E. Souto & Co., Bremen.

**EXTRACTS—Ginger**, 71 drs., Allied Drug & Chem. Corp., Havana; **Quebracho**, 1,003 bgs., Nat. Bank of Commerce, Buenos Aires; 2,017 bgs., Guaranty Trust Co., Buenos Aires; 2,099 bgs., Order, Buenos Aires; 1,021 bgs., First Nat. Bank, Buenos Aires; 10,313 bgs., Tannin Corp., Buenos Aires.

**FLOWERS**—14 bls., Anderson Hillier Co., Hamburg; 27 bgs., N. Galanos Co., Piraeus; **Chrysanthemum**, 47 bls., A. Joensson Co., Trieste; **Lavender**, 11 bls., Armand Gaidan & Co., Marseilles; **Rose**, 6 bls., Mech. & Metals Nat. Bank, Marseilles.

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**FORMALDEHYDE**—30 csks., Kuttroff Pickhardt & Co., Rotterdam  
**GELATIN**—40 pkgs., Order, Hamburg; 200 bgs., Equit. Trust Co., Bremen; 45 csks., Order, Marseilles; 20 pkgs., P. Puttmann, Bremen  
**GLAUBER SALT**—132 csks., Order, London  
**GLUE**—20 bgs., Order, London  
**GLYCERIN**—10 drs., Marx & Rawolle, St. Nazaire; 48 bbls., Order, Barcelona; 20 csks., Order, Havre  
**GUM**—263 bgs., Brown Bros. & Co., Port Sudan; 200 bgs., Standard Bank of South Amer., Port Sudan; 105 bgs., Guaranty Trust Co., Port Sudan; 730 bgs., Order, Port Sudan; 82 csks., Order, Marseilles; **Animi**, 12 bgs., S. Winterbourne, London; **Arabic**, 250 bgs., Order, Port Sudan; **Chicle**, 30 csks., Thurston & Braidich, Vera Cruz; 23 bbls., H. Triest & Co., Vera Cruz; 10 bjs., Gomez & Sloan, Vera Cruz; 149 csks., J. A. Medina & Co., Vera Cruz; **Copal**, 307 bgs., Chem. Nat. Bank, Antwerp; 1,015 bgs., Central Union Trust Co., Antwerp; 662 bgs., W. Schall & Co., Antwerp; 84 bgs., S. Winterbourne Co., Antwerp; 476 bgs., Chem. Nat. Bank, Antwerp; 228 bgs., Order, Antwerp; **Damar**, 57 bgs., Order, Antwerp; **Mastic**, 40 cs., Greek Co. of Mart Enterprises, Piraeus; **Myrrh**, 23 bgs., Order, London; 16 cs., Order, Aden; **Olibanum**, 5 cs., Kraemer & Co., London; 66 bgs., Order, Hamburg; **Tragacanth**, 25 cs., Orbis Prod. Trdg. Co., London; **Yacca**, 2 bgs., Order, London  
**HERBS**—16 bgs., Anderson Hillier & Co., Hamburg; 50 bbls., Peek & Velsor, Hamburg  
**HOPS**—25 bbls., H. V. Lovener, Hamburg; 20 bbls., C. Ullmann Co., Hamburg  
**IODINE**—327 bbls., Nash Watjen & Bangs, Tocopilla; 36 kgs., Nash Watjen & Bangs, Tocopilla  
**IRON—Oxide**, 46 csks., Reichard Coulston, Liverpool; 5 csks., Order, Liverpool; 10 csks., C. B. Chrystal, Liverpool; 5 csks., L. H. Butcher Co., Liverpool; 40 bbls., Order, Barcelona; 1 cse., P. C. Antoniadis, Malaga; 15 csks., E. M. & F. Waldo, Liverpool; 8 csks., J. McNulty, Liverpool; 10 csks., Order, Liverpool; 321 bbls., R. C. Williams & Co., Malaga; 95 bbls., J. Lee Smith & Co., Malaga; 228 bbls., C. J. Osborn Co., Malaga  
**LANOLIN**—6 bbls., Hummel & Robinson, Hamburg  
**LEAVES**—25 bbls., Order, Marseilles; 23 bbls., Order, Trieste; 62 bgs., McLaughlin Gormley & King, Hamburg; **Buchu**, 5 bbls., Chase Nat. Bank, Capetown; 12 bbls., Brown Bros. & Co., Capetown; 30 bbls., Order, Capetown; **Gayuba**, 160 bgs., A. Joansson & Co., Alicante; **Henna**, 51 bgs., N. Galanos Co., Piraeus; **Horehound**, 22 bbls., Order, Mar-

seilles; **Laurel**, 82 bbls., B. H. Old & Co., Trieste; 52 bbls., Van Loan & Co., Trieste; 50 bbls., Brown Bros. & Co., Trieste; **Sage**, 98 bbls., Fourth Atlantic Nat. Bank, Trieste; **Senna**, 32 bbls., Order, Port Sudan; 167 bbls., Amer. Exch. Nat. Bank, Tuticorin; 36 bbls., A. Joansson & Co., Port Sudan; 15 bbls., A. Joansson & Co., Port Sudan; 7 bbls., Order, Port Sudan; **Thyme**, 9 cs., Order, Bordeaux  
**LEECHES**—5 cs., Midwood Chem. Co., Bordeaux  
**LICORICE**—5 cs., C. Rueff, Marseilles; **Paste**, 360 cs., H. Utard, Tarragona  
**LIME—Borate**, 6,719 bgs., Pacific Coast Borax Co., Meijillones; **Tartrate**, 110 csks., C. Pfizer & Co., Marseilles; 110 csks., Royal Bkg. Powder Co., Marseilles  
**LITHOPONE**—92 csks., Reichard Coulston, Rotterdam  
**MAGNESITE**—334 csks., Innes Speiden Co., Rotterdam; 353 pkgs., H. J. Baker Bro., Rotterdam; 211 csks., Speiden Whitfield Co., Rotterdam; **Calcined**, 84 csks., Frazar & Co., Glasgow; **Lump**, 4,800 bgs., Order, Madras  
**MYROBALANS**—1,544 pkts., Order, Calcutta  
**NAPHTHALENE**—319 bgs., Order, Rotterdam  
**NUX VOMICA**—683 bgs., Order, Coconada  
**OCHRE**—295 csks., J. L. Smith & Co., Marseilles; 238 csks., Reichard Coulston, Inc., Marseilles; 152 csks., Reichard Coulston, Inc., Marseilles; 223 csks., Reichard Coulston, Marseilles  
**GILS—Cod**, 250 csks., Nat. Oil Products Co., St. Johns, N. F.; 200 csks., R. Badcock & Co., St. Johns, N. F.; **Fusel**, 13 drs., Order, Valencia; 31 drs., Order, Alexandria; 4 drs., Order, Dunkirk; **Olive**, 250 cs., E. L. Montagne Sons, Bordeaux; 200 cs., Order, Marseilles; 225 cs., Nicelle Olive Oil Co., Marseilles; 500 csks., Order, Nice; 110 bbls., Scaramelli & Co., Malaga; 300 cs., Latorraca Bros., Genoa; 140 cs., J. Petrocelli & Co., Genoa; 500 cs., Ajello & Co., Genoa; 200 pkgs., Colombo Co., Palermo; 100 cs., Guaranty Trust Co., Marseilles; 100 cs., Lazard Freres, Marseilles; 300 pkgs., W. Schall & Co., Marseilles; 900 cs., J. P. Smith & Co., Marseilles; 153 cs., 30 bbls., 45 csks., Order, Marseilles; 2 cs., Gen'l Transport Co., Naples; 11 csks., 4 cs., Hudson Fwdg & Shpg. Co., Naples; 25 cs., G. Basciano, Naples; 14 csks., A. Mario Papa, Naples; 26 cs., L. Serra, Naples; 5 csks., E. Pierro, Naples; 25 cs., 4 bbls., A. Cavallaro, Naples; 20 cs., F. Russo, Naples; 33 bbls., 2 cs., C. Carlo, Naples; 72 cs., Gen'l Transport Co., Naples; 20 bbls., A. De Chiara Farina Co., Naples; 6 cs., J. Chehade, Trieste; 27 cs., S. Khairalla, Trieste; 6 cs., D. J. Fasur & Bros., Trieste; 7 bbls., L. Guter-simone, Messina; 10 csks., S. V. Onefic,

Palermo; 18 pkgs., Columbia Co., Palermo; 87 csks., 17 cs., Order, Palermo; 41 cs., Laitambia Bros., Palermo; 45 cs., Order, Palermo; 20 bbls., P. La Dolcetta, Palermo; **Palm**, 12 csks., African & Eastern Trdg. Co., Hamburg; 60 csks., Niger Co., Liverpool; 31 cs., Amer. Exp. Co., Liverpool; 471 csks., African & Eastern Trdg. Co., 50 csks., Thornett & Fehr, Liverpool; 16 csks., Nat. City Bank, Liverpool; 40 csks., African & Eastern Trdg. Co., Liverpool; 30 csks., J. H. Raynard & Co., Liverpool; 44 csks., Thornett & Fehr, Liverpool; 43 csks., Order, Liverpool; **Peanut**, 288 csks., Amer. Shpg. Co., Bordeaux; **Sulfur Olive**, 100 csks., First Nat. Bank Boston, Leghorn; 150 csks., Amer. Corporation for Internat'l Commerce, Leghorn; 200 bbls., Order, Catania  
**GILS, ESSENTIAL**—6 cs., J. B. Horner & Co., Rotterdam; 1 cse., G. Lueders & Co., Havre; 10 cs., Order, Grasse; 4 csks., Roessler & Hasslacher Chem. Co., Grasse; 2 cs., Roure Bertrand Filis, Marseilles; 20 cs., Vacciano & Tulio, Marseilles; 18 cs., Hudson Fwdg. & Shpg. Co., Marseilles; 800 pkgs., Columbo Co., Marseilles; 200 cs., Hudson Fwdg. & Shpg. Co., Marseilles; 25 pkgs., 6 csks., Order, Marseilles; 40 bbls., Aspergren & Co., Marseilles; 8 cs., Gen'l Transport Co., Naples; 50 cs., L. Ducana D'Imp., Naples; 3 cs., Soc. Francaise de Prod. Chem. Aromatique, Messina; 4 cs., Ungever & Co., London; **Almond**, 5 csks., Delphi Prod. Co., Marseilles; 5 cs., Brown Bros. & Co., Marseilles; 5 cs., Dodge & Olcott, Grasse; **Bergamot**, 60 cs., Order, Messina; 56 cs., Brown Bros. & Co., Messina; **Camphor**, 1,000 cs., D. L. Moss Co., Shanghai; **Copaiba**, 51 cs., D. L. Moss & Co., Para; **Geranium**, 7 csks., 1 drum, Davies Turner & Co., Marseilles; 3 csks., Fritzsch Bros., Marseilles; **Lavender**, 6 csks., Delphi Prod. Co., Marseilles; 8 drs., Order, Alicante; **Lemon**, 20 cs., C. J. Pierce, Messina; 100 cs., A. A. Stillwell & Co., Messina; 229 cs., Brown Bros. & Co., Messina; 150 cs., G. Lueders & Co., Messina; 50 cs., Order, Messina; **Lime**, 16 drs., Order, London; **Linaloe**, 3 cs., Order, Vera Cruz; **Mustard**, 10 cs., Magnus Mabec & Reynard, Rotterdam; 2 cs., J. B. Horner & Co., Rotterdam; **Orange**, 10 cs., Colonial Bank, Jamaica; 41 cs., Order, Jamaica; 67 cs., Park Benziger & Co., Port Antonio; 25 cs., Stanley Jordan & Co., Messina; 25 cs., Heidelberg Ickelheimer & Co., Messina; 15 cs., Brown Bros. & Co., Messina; **Petit Grain**, 30 cs., W. R. Grace & Co., Buenos Aires; 25 cs., Equit. Trust Co., Buenos Aires; **Rosemary**, 10 drs., Order, Alicante; **Rosewood**, 38 drs., G. Lueders & Co., St. Nazaire; **Thyme**, 3 drs., Goldman Sachs & Co. London

Dyeline Azo Yellow

Dyeline Bismark Brown R

Dyeline Naphthol Green B

Dyeline Cloth Red G

Dyeline Fast Acid Yellow G

Dyeline Metanil Yellow

Dyeline Bismark Brown RS (Yellowish Shade)

Dyeline Cloth Scarlet G

Dyeline Cloth Red B

Dyeline M. T. D. (Meta Toluylene Diamine)

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Dye Products &amp; Chemical Co., Inc.

200 Fifth Avenue, New York

Works, Newark, N. J.



E. M. Sergeant Company

133 Cedar Street, New York City

Sodium Sulfide  
Barium Chloride

Red Oil

Sodium Hyposulfite  
Copperas

**POTASSIUM SALTS**—138 cks., Superfos Co., Hamburg; Bicarbonate, 50 drs., Meteor Prod. Co., Rotterdam; Chlorate, 1,000 bbls., Columbia Trust Co., Hamburg; 250 bbls., Order, Marseilles; Hydrate, 86 bbls., Brown Bros. & Co., Hamburg; Nitrate, 108 bbls., Innis Speiden & Co., Hamburg; Prussiate, 9 cts., A. J. Marcus, Hamburg; Sulfate, 500 bgs., A. Vogel, Bremen.

**POTATOE STARCH**—1,250 bgs., Stein Hall & Co., Rotterdam; 325 bgs., Order, Rotterdam; 250 bgs., A. Hoffman, Rotterdam.

**QUININE**—80 cs., Amer. Exch. Co., Rotterdam; 20 cs., R. W. Greeff & Co., Rotterdam.

**QUINOIDINE**—77 drs., R. W. Greeff & Co., Rotterdam.

**ROOTS**—48 pkgs., Anderson Hillier & Co., Hamburg; 5 bbls., Order, Hamburg; 11 bbls., Order, Trieste; 4 cs., Fidanque Bros., Panama; Broom, 153 bbls., H. Triest & Co., Vera Cruz; Ipecac, 10 bgs., Ultramarcs Corp., Cartagena; Licorice, 490 pkgs., J. Lopez, Bilbao; 78 bbls., Order, Alicante; 533 bbls., Order, Batum; Rhubarb, 12 cs., D. L. Moss & Co., Shanghai; 13 cs., S. B. Penick & Co., Shanghai; 13 cs., McIlvaine & Co., Shanghai.

**ROSIN**—128 cs., Order, Trieste.

**SAFFRON**—2 cs., Banque Belge, Alicante.

**SAL AMMONIAC**—34 bgs., Amer. Exp. Co., Havre.

**SALT**—1,120 bgs., Blackburn Trdg. Corp., Hamburg; 840 cks., W. A. Hazard Co., Liverpool; 775 bgs., Irving Nat. Bank, Hamburg; 400 cs., H. A. Ritchie & Co., London; 672 bgs., Blackburn Trdg. Co., Hamburg; 1,600 bgs., C. F. Rutgers & Co., Hamburg; 848 bgs., Blackburn Trdg. Co., Hamburg.

**SEEDS**—17 bgs., C. L. Huisking Co., Hamburg; 500 cks., Order, Marseilles; 16 bgs., 35 bbls., Order, Trieste; Aniseed, 60 bgs., McLoughlin Gormley & King, Alicante; 19 cks., Peek & Velsor, Bilbao; Annatto, 14 bgs., J. Victory, Mayaguez; 35 bgs., D. Steengrafe, Mayaguez; 97 bgs., D. Steengrafe, Aguadilla; Canary, 150 bgs., A. G. Dunn, Rotterdam; Castor, 15,699 bgs., Order, Cocanada; 5,000 bgs., F. Matarazzo & Co., Santos; 4,957 bgs., Bank of N. Y., Santos; Celery, 60 cks., Order, Marseilles; 100 bbls., Armand Gaidan & Co., Marseilles; Flax,

49,084 bgs., Midland Linseed Prod. Co., Rosario; 8,480 bgs., L. Dreyfus & Co., Rosario; 31,600 bgs., Goldman Sachs & Co., Rosario; 18,910 bgs., Kidder Peabody & Co., Rosario; 9,020 bgs., L. Dreyfus & Co., Santa Fe; 35,725 bgs., Order, Santa Fe; Larkspur, 5 bbls., Armand Gaidan & Co., Marseilles; Millet, 400 bgs., Order, Hamburg; Mustard, 200 bgs., Order, Catania; 406 bgs., Downing Exp. Co., Liverpool; 157 bgs., Catz Amer. Co., Rotterdam; Poppy, 300 cks., Order, Marseilles; 10 bgs., Materne & Hess, Trieste; 300 bgs., E. Miltenberg, Rotterdam; 100 bgs., Levy & Lewis, Rotterdam; 100 bgs., Archibald & Lewis, Rotterdam; 100 bgs., A. Stallman & Co., Rotterdam; 200 bgs., Netherland Corp., Rotterdam.

**SHELLAC**—32 bgs., Kasebier Chatfield Shellac Co., Hamburg; 10 cks., A. Helmuth, Bremen; 16 bgs., Order, Hamburg; 25 cs., Order, Hamburg; 200 bgs., Indian Trdg. Co., Calcutta; 100 bgs., G. Iwai & Co., Calcutta; 200 bgs., Order, Calcutta; 100 bgs., Ralli Bros., London; 40 pkgs., A. Murphy Co., Rotterdam; Garnet Lac, 60 cs., A. Murphy, Hamburg; 85 bgs., Order, Calcutta; 41 cs., A. Murphy Co., Hamburg; 22 bgs., Kasebier Chatfield Co., Hamburg; Refuse, 750 bgs., Bank of Manhattan, Calcutta; Stick Lac, 150 cs., Order, Marseilles; 77 cs., Order, Marseilles.

**SODIUM SALTS**—Cyanure, 210 cs., Nat. City Bank, Marseilles; Fluoride, 47 cks., Superfos Co., Hamburg; Hydrosulfite, 373 cks., Kuttroff Pickhardt & Co., Rotterdam; Nitrate, 5,405 bgs., W. R. Grace & Co., Iquique; 8,161 bgs., W. R. Grace & Co., Iquique; 64,768 bgs., W. R. Grace & Co., Iquique; 28,809 bgs., W. R. Grace & Co., Iquique; 17,861 bgs., E. L. du Pont de Nemours Co., Iquique; 11,487 bgs., Wessel Duval & Co., Iquique; 5,555 bgs., Wessel Duval & Co., Antofagasta; Prussiate, 22 cks., H. J. Baker & Bro., Liverpool; Sulfide, 50 drs., Brown Bros. & Co., Hamburg; 59 drs., Order, Hamburg; Sulfate, 2 cks., Kalbfleisch Corp., Antofagasta; Sulfite, 27 bbls., Blackburn Trdg. Co., Hamburg; Sulfhydrat, 25 drs., C. S. Grant & Co., Hamburg.

**SPICES**—Bitters, 1,000 cs., J. W. Wupperman, Trinidad; Cinnamon, 200 bbls., Order, Col-

ombo; Cloves, 95 cks., Order, Marseilles; Ginger, 200 cs., B. C. Ritchie, Canton; 135 bgs., Order, Hamburg; 587 bgs., Order, Hamburg; 95 bgs., E. Miltenberger, Liverpool; 100 bgs., Colonial Bank, Port Antonio; 82 bgs., A. S. Lascelles & Co., Port Antonio; Mace, 78 bgs., Royal Bank of Canada, Grenada; 40 bgs., Colonial Bank, Grenada; 16 pkgs., Colonial Bank, Grenada; Mustard, 8 cs., Delforth Bros., Rotterdam; Nutmegs, 150 bgs., E. Miltenberg, Grenada; 153 cs., Van Loan & Co., Rotterdam; 61 bgs., Catz Amer. Co., Rotterdam; 136 bgs., Catz Amer. Co., Rotterdam; 116 bgs., Royal Bank of Canada, Grenada; 2 bgs., T. Scott & Co., Grenada; 14 bgs., B. H. Old & Co., Grenada; 99 pkgs., Catz Amer. Co., Rotterdam; Paprika, 60 bgs., J. Victori & Co., Alicante; 65 bgs., R. F. Downing & Co., Alicante; 100 bgs., A. Colburn & Co., Alicante; 50 bgs., Manuel Caragol & Son, Alicante; 50 bgs., F. H. Leggett & Co., Alicante; 100 bgs., Archibald & Lewis Co., Alicante; 130 bgs., Rene Mollehausen, Cartagena; Pepper, Black, 1,200 bgs., A. Joensson & Co., Tellicherry; 800 bgs., Order, Tellicherry; Red, 7 bbls., Amer. Exch. Nat. Bank, Tuticorin.

**SUMAC**—Ground, 700 bgs., Order, Palermo.

**TALC**—1,000 bgs., Hammill & Gillespie, Bordeaux; 50 bgs., H. S. Premore, Bordeaux; 2,300 bgs., L. A. Salomon, Bordeaux; 450 bgs., C. Mathieu, Genoa; 350 bgs., L. A. Salomon & Bros., Genoa.

**TARTAR**—671 cks., C. Pfizer & Co., Marseilles; 205 cks., Tartar Chem. Wks., Marseilles; 195 bgs., Tartar Chem. Wks., Taragona; 77 cks., Tartar Chem. Wks., Naples; 344 cks., C. Pfizer & Co., Valencia.

**UMBER**—Terra, 2,210 bgs., Reichard Coulston, Larnaca; 4,582 bgs., Order, Larnaca.

**VANILLA BEANS**—10 cs., G. Lueders & Co., Havre; 11 cs., L. C. Dever, Bordeaux; 71 cs., Thurston & Braidich, Marseilles; 73 cs., Order, Marseilles; 45 cs., Davies Turner Co., Marseilles; 34 cs., Bank of N. Y. & Trust Co., Marseilles; 111 cs., Dodge & Olcott, Marseilles; 23 cs., Order, Marseilles; 8 cs., Amer. Exch. Co., London.

**ZINC**—Blanc, 125 pkgs., Order, Marseilles; Oxide, 100 bbls., Order, Marseilles; 10 cs., Order, London.

Spot Offerings

# Bicarbonate of Potash U.S.P.

Powdered or Crystals

# Barium Nitrate

# Copper

# Sulphate 98-100%

Large Crystals

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Importers Exporters & Manufacturers Agents

DODGE BLDG 53 PARK PLACE NEW YORK CITY

Imports at San Francisco during the week ending March 10 included the following: On the steamer Pennsylvanian, from Hamburg, to order 220 barrels soda, and to the Pacific Distributing Corp. 19 casks oxide. On the steamer President Wilson, from Hongkong, to order 1 lot wood oil in bulk, to order 150 bags shellac, and to the Pacific Orient Co. 4 cases cassia.

The United States Civil Service Commission, Washington, D. C., announces open competitive examinations for Chemist, \$3,000 to \$5,000; Associate Chemist, \$2,000 to \$3,000 and \$1,600 to \$2,000 a year, for vacancies in the Chemical Warfare Service, Edgewood Arsenal, Edgewood, Md. Receipt of applications closes March 27.

Imports to the United States from Germany in Nov. 1922, were valued at \$10,246,000 as against goods worth \$5,913,000 received during the same month year before last. Imports from England in November of last year reached \$33,722,000 in value as compared with \$21,887,000 worth in Nov. 1921.

The sulfuric acid production of the Tennessee Copper & Chemical Co. for one day during the past week was 1,165 tons. This represents a solid train of fifty-four 50 ton tank cars.

The Goldine Chemical Co., Albany, N. Y., was damaged by fire on March 8 to the amount of \$7,000. The loss was covered by insurance.

Fre destroyed the sawmill of the Delta Chemical Co., Wells, Mich., on March 2. Loss \$50,000.

The Chemical Utilities Co., Cincinnati, has moved to 1515 W. Sixth st.



# Wants & Offers

Rate—All classifications, \$1.00 an issue for 20 words or less, additional words, 5c each, per issue.

Payment—Must accompany order, add 10c if replies are to be forwarded.

Address "Wants & Offers"  
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**A FIRM WITHOUT A CREDIT MAN** is offered high calibre personal part time service and advice by well-known drug credit manager for large firm. Will supervise and check credits, establish credit and collection systems, and give the benefit of wide and active experience for a nominal fee. Box 307, DRUG & CHEMICAL MARKETS.

**FAR EAST BUSINESS**—Experienced, reputable chemical dealer wants to add to exclusive, sales agencies handled for Japan and China. Available for interview in New York, Chicago, Boston or San Francisco March 15th to April 20th. Box 318, DRUG & CHEMICAL MARKETS.

**SMALL PLANT WANTED**—Western manufacturer wants to secure small building in Metropolitan district, Long Island City, New Jersey, or other near-by location. Suitable for dextrine manufacture. Railroad siding. Trucking distance Manhattan and Brooklyn. Box 327, DRUG & CHEMICAL MARKETS.

**CRUDE DRUGS**—Firm in India, first hand shippers of crude botanical drugs are desirous of getting in touch with American importers of medicinal herbs. Address reply Box 306, DRUG & CHEMICAL MARKETS.

If you manufacture products used in the paint, varnish, ink, paper, rubber, and other industries and which can be sold in Ohio—Address, Box 309, DRUG & CHEMICAL MARKETS.

## HELP WANTED

**PHARMACEUTICAL SALESMAN WANTED** BY LARGE IMPORTER TO COVER MANUFACTURERS AND WHOLESALERS. MUST BE THOROUGHLY EXPERIENCED IN THIS LINE BOTH FROM SELLING AND TECHNICAL STANDPOINT. IN REPLY, STATE SALARY EXPECTED, FULL PARTICULARS OF EXPERIENCE, AGE AND RELIGION. BOX 328, DRUG & CHEMICAL MARKETS.

We have New York City and vicinity as well as few other good territories to offer a few good men selling our transparent Nitrocellulose Sheet, Soluble Cotton and Soluble Cotton Solutions to industrial users. Apply by letter only which will be considered confidential. Eastman Chemical Corporation, 343 State Street, Rochester, N. Y.

**STOCK CLERK** for a large wholesale drug house, one familiar with patents and sundries. State salary and experience. Box 331, DRUG & CHEMICAL MARKETS.

**SUPERINTENDENT WANTED**—Plant Superintendent to equip and operate a small factory for the manufacture of Sal Soda and Glauber's Salt in the vicinity of New York City. Must have had actual practical experience in this particular line and be capable of assuming complete charge of the work. Reply in own handwriting stating age, experience and other qualifications, also salary desired. All applications will be kept strictly confidential. Box 311, DRUG & CHEMICAL MARKETS.

## HELP WANTED

### INSECTICIDE SALESMEN

Manufacturer wants three or four good men who have experience in this line and real selling ability. Protected territory and liberal drawing account. Write fully in confidence to Box 330, DRUG & CHEMICAL MARKETS.

**SALESMAN WANTED**—Reliable chemical jobber, Christian concern, needs a young man about 21 years for the position of salesman on straight salary basis; good opportunity for the right person; previous experience unnecessary. Box 333, DRUG & CHEMICAL MARKETS.

**SALESMAN** wanted in Mid-West territory to call on consuming industries. Good opening with manufacturer for an experienced man. Box 313, DRUG & CHEMICAL MARKETS.

**WANTED** by old established concern located near New York well trained organic chemist to work into active charge of department manufacturing fine synthetic chemicals and essential oil isolates. Some plant experience in this particular line preferable but of less importance than sound chemical knowledge, common sense, ability to handle men and inclination to work. Box 308, DRUG & CHEMICAL MARKETS.

**SALESMAN WANTED FOR SYNTHETIC CHEMICALS FOR PERFUMES, SOAPS, ETC.** MUST BE THOROUGHLY EXPERIENCED IN THIS LINE. IN REPLY, STATE NATURE OF EXPERIENCE, AGE AND SALARY EXPECTED. BOX 329, DRUG & CHEMICAL MARKETS.

## CHEMICAL EQUIPMENT

### ALUMINUM KETTLES

100—80 to 100 gal. Coppers.

### CENTRIFUGALS

2—26-in. Copper Baskets.  
 2—36-in. Copper Baskets.  
 2—36-in. Bronze Baskets.  
 7—48-in. Bronze Mesh Baskets.  
 1—60-in. Steel, Rubber Lined.

### DRYERS

3—No. 11 Vacuum Shelf, Devine.  
 1—8 truck Hurricane.  
 10—Gordon Tray and Truck Dryers.  
 3—Bronze Drum Dryers.  
 10—Other Vacuum Dryers.

### STILLS

1—100 gal. Badger Copper Still.  
 3—Vacuum Still, 55 to 100 gals.  
 7—Copper Col. Alcohol Dist. Units.  
 1—400-gal. Aluminum Still.

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1—4 x 6 Oliver Filter, all iron.  
 3—6 x 6 Oliver Filter.  
 3—No. 150 Kelly Filter.  
 1—No. 250 Kelly Filter.  
 1—No. 12 Sweetland.

### REFRIGERATING MACHINES

1—10-ton Fricke. 1—4-ton York.  
 2—40-ton York. 6—2-ton Ref.  
 A large quantity of Refrigerators from 2 to 12 tons.

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Cocks, Tees, Elbs, Flanged and Bell Pipe  
 All sizes, never used.

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Manufacturers of

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 Oils, Gums*

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1500

New and slightly used steel tanks in all sizes and kinds. Pressure tanks, mixing tanks, storage tanks, pump tanks, heating tanks, etc. Write for Bulletin No. 7, giving sizes and descriptions.

**NASHVILLE INDUSTRIAL CORP.**  
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# Wants and Offers—The Marketplace of the - - Drug and Chemical Industries

## SITUATIONS WANTED

**SALESMAN** familiar with alcohol and industrial chemical lines, who has a good record of sales and is not afraid of hard work, seeks position in Middle West territory. Address **SELLER, DRUG & CHEMICAL MARKETS.**

**CHEMIST, B.S.**, age 26, single, with 3½ years' experience as research chemist and analyst in firm manufacturing dairy products, wishes similar position with food house, or commercial laboratory. Location New York City, or vicinity. Now employed, but wishes to change for position that offers better future. Box 322, **DRUG & CHEMICAL MARKETS.**

**ORGANIC CHEMIST** with fourteen years experience in research and plant development, capable of directing work in the production of pharmaceuticals, synthetic medicinals, and fine organic chemicals, will demonstrate, at a reasonable salary, his ability to obtain results. Box 324, **DRUG & CHEMICAL MARKETS.**

**ASSISTANT Research and Analytical Chemist**, honor graduate in chemistry London University, desires position in research capacity in American chemical plant. H. L. Turk, B. Sc., 54 High Street, Shirley, Southampton, England.

**SALESMAN**—Trained chemist familiar with organic field wishes to establish connection with firm covering Metropolitan territory. Box 325, **DRUG & CHEMICAL MARKETS.**

**CHEMIST**—Thoroughly experienced in medicinal and fine organic chemicals available for connection with manufacturer. Box 326, **DRUG & CHEMICAL MARKETS.**

## SITUATIONS WANTED

**SALES MANAGER** and Buyer of Botanicals, Chemicals, Essential Oils, and Sundries. Many years experience with finest houses. Well known. Desires connection with wholesale drug house. Can furnish high class references. Box 312, **DRUG & CHEMICAL MARKETS.**

## NITRO CELLULOSE MAN

Experienced chemist, manufacturer, market analyst and merchandiser. Thoroughly familiar with every phase from the raw cotton, through manufacture to successful production of nitrates, films, lacquers, leather cloth and other products. An honor graduate in chemistry and mechanics. Twelve years intensive work with leading makers. Splendid executive, exceptional references. Now employed but immediately available. Box 321, **DRUG & CHEMICAL MARKETS.**

**CHEMIST**—Analyst, Expert Foods, leathers and oils. Eight years experience. College graduate. Box 320, **DRUG & CHEMICAL MARKETS.**

**PLANT EXECUTIVE**—Advertiser is trained chemist (M. S. Cornell) who has had eleven years practical experience in chemical manufacturing. He has forceful personality and executive ability, and is able to handle men to get results. He has had experience in alkalies, varnishes, and coal-tar medicinals, with sound working knowledge of general heavy chemical processes. Available June 1st. Box 332, **DRUG & CHEMICAL MARKETS.**

**SALESMAN** with following in New England textile trade is open for engagement with dye or heavy chemical house beginning May first. Box 314, **DRUG & CHEMICAL MARKETS.**

## DRUGS & CHEMICALS

**WANTED:** Zinc Sludge from Alkaline reduction. Box 310, **DRUG & CHEMICAL MARKETS.**

**SUBSCRIBER** offers for sale 5 tons Alpha Naphthylamine, Standard make and original packing. Submit bids to Box 333, **DRUG & CHEMICAL MARKETS.**

**FOR SALE**—WHITING, Imported Clifstone Whiting testing 99.85 Calcium Carbonate. Crystalline nature. An excellent Paint Filler. \$16.00 per ton carlots, \$17.00 per ton less than carlots F. O. B. Hoboken, packed in 100 lb. bags. Box 319, **DRUG & CHEMICAL MARKETS.**

## PLANT EQUIPMENT

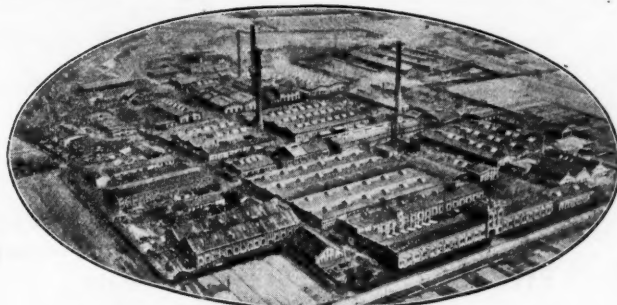
**FOR SALE**—Three glass-lined tanks capacity 75 gallons. Box 315, **DRUG & CHEMICAL MARKETS.**

**LABORATORY WANTED**—Manufacturer will buy for cash apparatus and equipment for plant and small research laboratory fitted for coal-tar work. Full particulars in first letter. Box 316, **DRUG & CHEMICAL MARKETS.**

**WANTED**—Filter Press—state type and capacity—must be in A1 condition. Box 317, **DRUG & CHEMICAL MARKETS.**

## MISCELLANEOUS

**ASK THE Bureau of Employment of the Chemists' Club (Agency) 52 East 41st Street, New York City.** If you need a chemist (man or woman) for the laboratory or works. If you wish a position for the practice of your profession. No charge to employers. Moderate fee to applicants. Prof. Herbert R. Moody, Chairman Club Committee.



View taken from  
an airplane  
in 1921

Founded in 1861

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 Benzyl Chloride  
 Sodium Nitrite  
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 For Iron and Steel  
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 Sodium Salicylate  
 Methyl Salicylate  
 Monochlor-Benzol  
 Paradichlor-Benzol  
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 of Soda  
 Calcium Chloride  
 73-75%  
 Calcium Chloride  
 Anhydrous  
 Caustic Potash  
 Salt

**SEMET-SOLVAY**  
SYRACUSE NEW YORK

NEW YORK, N.Y. CHICAGO, ILL. BOSTON, MASS.



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All Tests

# Soda Ash

Dense-Light  
Granular if Desired

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## Buyers' Guide

For full particulars as to products and addresses see Index of Advertisers on the page following.

### HEAVY CHEMICALS

J. T. Baker Chemical Co.	A. Klipstein & Co.
Battelle & Renwick	Merchants Chemical Co.
Bowker Chemical Co.	Meteor Products Co.
Church & Dwight	Mathieson Alkali Works
The Cleveland-Cliffs Iron Co.	The Miner-Edgar Co.
Contact Process Co.	Monsanto Chemical Works
Chas. Cooper & Co.	Clarence Morgan & Co.
Darco Sales Corp.	Nichols Copper Co.
Diamond Alkali Co.	Pfaltz & Bauer
The Dow Chemical Co.	The Selden Co.
E. I. du Pont de Nemours & Co.	Roessler & Hasselacher Chem.
Ellis Jackson & Co.	Seaboard Chemical Co.
B. G. Feinberg	Semet Solvay Co.
Alex C. Fergusson, Jr.	E. M. Sergeant Co.
General Chemical Co.	Solvay Process Co.
Grasselli Chemical Co.	Stein Hall & Co.
W. F. George Chemicals, Inc.	Superfos Company
Wm. S. Gray & Co.	Thorkildsen-Mather Co.
R. W. Greff & Co.	U. S. Industrial Alcohol Co.
Hans Hinrichs Chem. Corp.	Victor Chemical Works
Edward Hill's Son & Co.	The Warner Chemical Co.
T. C. Hoelzer Co.	Wilkes-Martin-Wilkes Co.
Industrial Chemical Co.	Will & Baumer Candle Co.
Innis Speiden & Co.	Isaac Winkler & Bro. Co.
International Salt Co.	Jacques Wolf & Co.

### FINE CHEMICALS

Abbott Laboratories	Jose Lopez
Baird & McGuire	Magnus, Mabée & Reynard, Inc.
J. T. Baker Chemical Co.	Mallinckrodt Chemical Works
Bowker Chemical Co.	May & Baker
Carbide & Carbon Chem. Corp.	Meteor Products Co.
Chicago Starch Co.	H. A. Metz & Co.
Antoine Chiris Co.	The Miner-Edgar Co.
Charles Cooper & Co.	Monsanto Chemical Works
Darco Sales Corp.	Clarence Morgan & Co.
J. E. Dockendorff & Co.	N. Y. Quinine & Chem. Works
The Dow Chemical Co.	Perth Amboy Chem. Wks.
Eastman Kodak Co.	Pfaltz & Bauer
Electro Bleaching Gas Co.	Powers-Weightman-Rosengarten
B. G. Feinberg	Roessler & Hasselacher Chem. Co.
E. Fougere & Co.	Rhodia Chem. Co.
Grasselli Chemical Co.	Seaboard Chemical Co.
Guasti-Finch Chem. Co.	Stein Hall & Co.
William S. Gray & Co.	Superfos Company
R. W. Greff & Co.	Thorkildsen-Mather Co.
Hans Hinrichs Chem. Corp.	Ungerer & Co.
Albert H. Higbie	U. S. Industrial Chemical Co.
T. C. Hoelzer Co.	Victor Chemical Works
Hoffman-La Roche Chem. Wks.	Victor & Hosken
Industrial Chemical Co.	Wilkes-Martin-Wilkes Co.
A. Klipstein & Co.	Will & Baumer Candle Co.

### DYESTUFFS

Calco Chemical Co.	Heller & Merz Co.
Dow Chemical Co.	H. A. Metz & Co.
Dye Products & Chem. Co.	National Aniline & Chemical Co.
Essex Aniline Works	
E. I. du Pont de Nemours & Co.	Newport Chemical Works
Ellis Jackson & Co.	Pharma-Chemical Corp.
A. Klipstein & Co.	Southern Dyestuffs Co.
Gary Chem. Co.	Stein Hall & Co.
Grasselli Chemical Co.	Jacques Wolf & Co.

### COAL TAR PRODUCTS

Abbott Laboratories	A. Klipstein & Co.
Baird & McGuire	H. A. Metz & Company
The Barrett Co.	Monsanto Chemical Works
Calco Chemical Co.	National Aniline & Chemical Co.
Chatfield Mfg. Co.	
Essex Aniline Works	Newport Chemical Works
E. I. du Pont de Nemours & Co.	Protexol Corp.
Heller & Merz Co.	Southern Dyestuffs Co.
Jordan Coal Tar Products Co.	

### FATTY OILS

Antoine Chiris Co.	Will & Baumer Candle Co.
New Brunswick Chem. Co.	Jacques Wolf & Co.

### ESSENTIAL OILS

M. L. Barrett & Co.	Magnus, Mabée & Reynard, Inc.
Belgian Trading Co.	Morana, Incorporated
W. J. Bush & Co.	Clarence Morgan & Co.
Antoine Chiris Co.	Pfaltz & Bauer, Inc.
Delphi Products, Inc.	Ungerer & Co.
J. E. Dockendorff & Co.	Victor & Hosken
Fritzsche Bros.	

### CRUDE DRUGS

Amecousema Am. Trad'g House	H. R. Lathrop & Co.
M. L. Barrett & Co.	Jose Lopez
W. J. Bush & Co.	Magnus, Mabée & Reynard, Inc.
E. Fougere & Co.	Morana, Incorporated
Hoffman-La Roche Chem. Wks.	Pfaltz & Bauer
Arthur Stallman & Co.	

### EQUIPMENT

Buffalo Foundry & Machine Co.	Consolidated Products Co., Inc.
The Chemical Age	Nashville Industrial Corp.
Chemical Trade Journal	La Revue des Produits Chimiques
The Cleveland Cooperaage Co.	The Yakugyo Shubo

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**NEW ORLEANS**  
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**NEW YORK**  
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**NEWARK**  
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#### Warehouses

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<b>BALTIMORE</b>	<b>ST. LOUIS</b>	<b>CLEVELAND</b>
<b>PHILADELPHIA</b>	<b>KANSAS CITY</b>	<b>DETROIT</b>
<b>BOSTON</b>	<b>NEW ORLEANS</b>	<b>CINCINNATI</b>
<b>PEORIA</b>	<b>ST. PAUL</b>	

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